

CPC**COOPERATIVE PATENT CLASSIFICATION****C08G****MACROMOLECULAR COMPOUNDS OBTAINED OTHERWISE THAN BY REACTIONS ONLY INVOLVING UNSATURATED CARBON-TO-CARBON BONDS****NOTE**

In this subclass, group [C08G 18/00](#) takes precedence over the other groups. A further classification is given if the polymers are obtained by reactions forming specific linkages for which an appropriate group is provided.

Within each main group of this subclass, in the absence of an indication to the contrary, classification is made in the last appropriate place.

In groups [C08G 61/00](#) to [C08G 79/00](#), in the absence of an indication to the contrary, macromolecular compounds obtained by reactions forming two different linkages in the main chain are classified only according to the linkage present in excess.

This subclass covers also compositions based on monomers which from macromolecular compounds classifiable in this subclass. In this subclass:
if the monomers are defined, classification is made in groups [C08G 2/00](#) to [C08G 79/00](#), [C08G 83/00](#) according to the polymer to be formed;

if the monomers are defined in a way that a composition cannot be classified within one main group of this subclass, the composition is classified in group [C08G 85/00](#);

if the compounding ingredients are of interest per se, classification is also made in subclass [C08K](#).

WARNING

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[C08G 14/067](#), [C08G 14/073](#), [C08G 14/09](#) covered by [C08G 14/06](#)

[C08G 59/16](#), [C08G 59/17](#) covered by [C08G 59/14](#)

[C08G 63/49](#) covered by [C08G 63/48](#)

[C08G 65/28](#) covered by [C08G 65/26](#)

[C08G 73/04](#) covered by [C08G 73/02](#)

C08G 2/00

Addition polymers of aldehydes or cyclic oligomers thereof or of ketones; Addition copolymers thereof with less than 50 molar percent of other substances

C08G 2/02

- Polymerisation initiated by wave energy or by particle radiation

C08G 2/04

- Polymerisation by using compounds which act upon the molecular weight, e.g. chain-transferring agents

C08G 2/06

- Catalysts ([Catalysts in general B01J](#))

- C08G 2/08 . Polymerisation of formaldehyde
 - C08G 2/10 . Polymerisation of cyclic oligomers of formaldehyde
 - C08G 2/12 . Polymerisation of acetaldehyde or cyclic oligomers thereof
 - C08G 2/14 . Polymerisation of single aldehydes not provided for in groups [C08G 2/08](#) to [C08G 2/12](#)
 - C08G 2/16 . Polymerisation of single ketones
 - C08G 2/18 . Copolymerisation of aldehydes or ketones
 - C08G 2/20 . . with other aldehydes or ketones
 - C08G 2/22 . . with epoxy compounds
 - C08G 2/24 . . with acetals
 - C08G 2/26 . . with compounds containing carbon-to-carbon unsaturation
 - C08G 2/28 . Post-polymerisation treatments
 - C08G 2/30 . Chemical modification by after-treatment
 - C08G 2/32 . . by esterification
 - C08G 2/34 . . by etherification
 - C08G 2/36 . . by depolymerisation
 - C08G 2/38 . Block or graft polymers prepared by polymerisation of aldehydes or ketones on to macromolecular compounds
- C08G 4/00 Condensation polymers of aldehydes or ketones with polyalcohols; Addition polymers of heterocyclic oxygen compounds containing in the ring at least once the grouping -O-C-O- (of cyclic oligomers of aldehydes [C08G 2/00](#))**
- C08G 6/00 Condensation polymers of aldehydes or ketones only**
- C08G 6/02 . of aldehydes with ketones
- C08G 8/00 Condensation polymers of aldehydes or ketones with phenols only**
- C08G 8/02 . of ketones
 - C08G 8/04 . of aldehydes
 - C08G 8/06 . . of furfural
 - C08G 8/08 . . of formaldehyde, e.g. of formaldehyde formed in situ
 - C08G 8/10 . . . with phenol
 - C08G 8/12 . . . with monohydric phenols having only one hydrocarbon substituent ortho on para to the OH group, e.g. p-tert.-butyl phenol
 - C08G 8/14 . . . with halogenated phenols
 - C08G 8/16 . . . with amino- or nitrophenols
 - C08G 8/18 . . . with phenols substituted by carboxylic or sulfonic acid groups
 - C08G 8/20 . . . with polyhydric phenols
 - C08G 8/22 Resorcinol
 - C08G 8/24 . . . with mixtures of two or more phenols which are not covered by only one of the groups [C08G 8/10](#) to [C08G 8/20](#)
 - C08G 8/26 . from mixtures of aldehydes and ketones
 - C08G 8/28 . Chemically modified polycondensates

C08G 8/30	..	by unsaturated compounds, e.g. terpenes
C08G 8/32	..	by organic acids or derivatives thereof, e.g. fatty oils
C08G 8/34	..	by natural resins or resin acids, e.g. rosin
C08G 8/36	..	by etherifying
C08G 8/38	.	Block or graft polymers prepared by polycondensation of aldehydes or ketones onto macromolecular compounds
C08G 10/00		Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or halogenated aromatic hydrocarbons only
C08G 10/02	.	of aldehydes
C08G 10/04	..	Chemically-modified polycondensates
C08G 10/06	.	Block or graft polymers prepared by polycondensation of aldehydes or ketones onto macromolecular compounds
C08G 12/00		Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (aminophenols C08G 8/16)
C08G 12/02	.	of aldehydes
C08G 12/04	..	with acyclic or carbocyclic compounds
C08G 12/043	...	{with at least two compounds covered by more than one of the groups C08G 12/06 to C08G 12/24 }
C08G 12/046	....	{one being urea or thiourea}
C08G 12/06	...	Amines
C08G 12/08	....	aromatic
C08G 12/10	...	with acyclic compounds having the moiety $X=C(-N<)_2$ in which X is O, S or N-
C08G 12/12	....	Ureas; Thioureas
C08G 12/14	....	Dicyandiamides; Dicyandiamidines; Guanidines; Biguanidines; Biuret; Semicarbazides
C08G 12/16	.....	Dicyandiamides
C08G 12/18	...	with cyanamide
C08G 12/20	...	with urethanes or thiourethanes
C08G 12/22	...	with carboxylic acid amides (reaction of polyamides with aldehydes C08G 69/50)
C08G 12/24	...	with sulfonic acid amides
C08G 12/26	..	with heterocyclic compounds
C08G 12/263	...	{with at least two compounds covered by more than one of the groups C08G 12/28 to C08G 12/32 }
C08G 12/266	....	{one being melamine}
C08G 12/28	...	with substituted diazines, diazoles or triazoles
C08G 12/30	...	with substituted triazines
C08G 12/32	....	Melamines
C08G 12/34	...	and acyclic or carbocyclic compounds
C08G 12/36	....	Ureas; Thioureas
C08G 12/38	.....	and melamines

- C08G 12/40 .. Chemically modified polycondensates
- C08G 12/42 ... by etherifying
 - C08G 12/421 {of polycondensates based on acyclic or carbocyclic compounds}
 - C08G 12/422 {based on urea or thiourea}
 - C08G 12/424 {of polycondensates based on heterocyclic compounds}
 - C08G 12/425 {based on triazines}
 - C08G 12/427 {Melamine}
 - C08G 12/428 {of polycondensates based on heterocyclic and acyclic or carbocyclic compounds}
- C08G 12/44 ... by esterifying
- C08G 12/46 . Block or graft polymers prepared by polycondensation of aldehydes or ketones on to macromolecular compounds

C08G 14/00 **Condensation polymers of aldehydes or ketones with two or more other monomers covered by at least two of the groups [C08G 8/00](#) to [C08G 12/00](#)**

- C08G 14/02 . of aldehydes
- C08G 14/04 .. with phenols
- C08G 14/06 ... and monomers containing hydrogen attached to nitrogen
- C08G 14/08 Ureas; Thioureas
- C08G 14/10 Melamines
- C08G 14/12 ... Chemically modified polycondensates
- C08G 14/14 . Block or graft polymers prepared by polycondensation of aldehydes or ketones on to macromolecular compounds

C08G 16/00 **Condensation polymers of aldehydes or ketones with monomers not provided for in the groups [C08G 4/00](#) to [C08G 14/00](#) (with polynitriles [C08G 69/38](#))**

- C08G 16/02 . of aldehydes
- C08G 16/0206 .. {with inorganic compounds}
- C08G 16/0212 .. {with acyclic or carbocyclic organic compounds}
- C08G 16/0218 ... {containing atoms other than carbon and hydrogen}
- C08G 16/0225 {containing oxygen}
- C08G 16/0231 {containing nitrogen}
- C08G 16/0237 {containing sulfur}
- C08G 16/0243 {containing phosphorus}
- C08G 16/025 .. {with heterocyclic organic compounds}
- C08G 16/0256 ... {containing oxygen in the ring}
- C08G 16/0262 {Furfuryl alcohol}
- C08G 16/0268 ... {containing nitrogen in the ring}
- C08G 16/0275 ... {containing sulfur in the ring}
- C08G 16/0281 ... {containing phosphorus in the ring}
- C08G 16/0287 .. {with organometallic or metal-containing organic compounds}

C08G 16/0293	.. {with natural products, oils, bitumens, residues}
C08G 16/04	.. Chemically modified polycondensates
C08G 16/06	. Block or graft polymers prepared by polycondensation of aldehydes or ketones on to macromolecular compounds
C08G 18/00	Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific C08J)
C08G 18/003	. {with epoxy compounds having no active hydrogen (with epoxy resins containing active hydrogen C08G 18/58)}
C08G 18/006	. {with aldehydes}
C08G 18/02	. of isocyanates or isothiocyanates only
C08G 18/022	.. {the polymeric products containing isocyanurate groups}
C08G 18/025	.. {the polymeric products containing carbodiimide groups}
C08G 18/027	.. {the polymeric products containing urethodione groups}
C08G 18/04	. with vinyl compounds
C08G 18/06	. with compounds having active hydrogen
C08G 18/08	.. Processes
C08G 18/0804	... {Manufacture of polymers containing ionic or ionogenic groups}

NOTE

Polymers prepared from unsaturated low-molecular-weight compounds having active hydrogen or isocyanate or isothiocyanate groups are classified in the respective [C08G 18/67](#) and [C08G 18/81](#) groups, according to the notes after [C08G 18/67](#) and [C08G 18/81](#)

C08G 18/0809	.... {containing cationic or cationogenic groups}
C08G 18/0814	..... {containing ammonium groups or groups forming them}
C08G 18/0819	.... {containing anionic or anionogenic groups}
C08G 18/0823	..... {containing carboxylate salt groups or groups forming them}
C08G 18/0828	..... {containing sulfonate groups or groups forming them}
C08G 18/0833	.... {containing cationic or cationogenic groups together with anionic or anionogenic groups}
C08G 18/0838	... {Manufacture of polymers in the presence of non-reactive compounds (preparation of compositions C08L 75/00)}
C08G 18/0842	.... {in the presence of liquid diluents (C08G 18/0804 takes precedence)}
C08G 18/0847	..... {in the presence of solvents for the polymers}
C08G 18/0852	..... {the solvents being organic}
C08G 18/0857	..... {the solvent being a polyol}
C08G 18/0861	.... {in the presence of a dispersing phase for the polymers or a phase dispersed in the polymers}
C08G 18/0866	..... {the dispersing or dispersed phase being an aqueous medium}
C08G 18/0871	..... {the dispersing or dispersed phase being organic}
C08G 18/0876	..... {the dispersing or dispersed phase being a polyol}

C08G 18/088	...	{Removal of water or carbon dioxide from the reaction mixture or reaction components}
C08G 18/0885	....	{using additives, e.g. absorbing agents}
C08G 18/089	...	{Reaction retarding agents}
C08G 18/0895	...	{Manufacture of polymers by continuous processes (C08G 18/0838 takes precedence)}

NOTE

After the symbols [C08G 18/10](#) and [C08G 18/12](#) and separated by a "," sign, are indicated the reactive components of a second or following step by one of the symbols [C08G 18/2805](#), [C08G 18/30](#) to [C08G 18/38](#), [C08G 18/40](#) to [C08G 18/64](#) without subnotations, [C08G 18/65](#) to [C08G 18/66](#), [C08G 18/70](#) to [C08G 18/80](#)

After the symbols [C08G 18/10](#) and [C08G 18/12](#) and separated by a "," sign are indicated the oligomerisation of isocyanate- or isothiocyanate groups in the prepolymers or in the added reactive components involving reaction of at least a part of the isocyanate- or isothiocyanate groups with each other in the reaction mixture by the symbols [C08G 18/02](#) or [C08G 18/09](#) respectively or by subnotations thereof

C08G 18/09	...	comprising oligomerisation of isocyanates or isothiocyanates involving reaction of a part of the isocyanate or isothiocyanate groups with each other in the reaction mixture (use of preformed oligomers C08G 18/79)
C08G 18/092	....	{oligomerisation to isocyanurate groups}
C08G 18/095	....	{oligomerisation to carbodiimide or uretone-imine groups}
C08G 18/097	....	{oligomerisation to urethdione groups}
C08G 18/10	...	Prepolymer processes involving reaction of isocyanates or isothiocyanates with compounds having active hydrogen in a first reaction step (C08G 18/0838 takes precedence); masked polyisocyanates C08G 18/80)
C08G 18/12	....	using two or more compounds having active hydrogen in the first polymerisation step
C08G 18/14	...	Manufacture of cellular products
C08G 18/16	...	Catalysts (catalysts in general B01J)
C08G 18/161	....	{containing two or more components to be covered by at least two of the groups C08G 18/166 , C08G 18/18 or C08G 18/22 }
C08G 18/163	.....	{covered by C08G 18/18 and C08G 18/22 }
C08G 18/165	.....	{covered by C08G 18/18 and C08G 18/24 }
C08G 18/166	....	{Catalysts not provided for in the groups C08G 18/18 to C08G 18/26 }
C08G 18/168	.....	{Organic compounds}
C08G 18/18	....	containing secondary or tertiary amines or salts thereof
C08G 18/1808	.....	{having alkylene polyamine groups}
C08G 18/1816	.....	{having carbocyclic groups}
C08G 18/1825	.....	{having hydroxy or primary amino groups}
C08G 18/1833	.....	{having ether, acetal, or orthoester groups}

C08G 18/1841	.....	{having carbonyl groups which may be linked to one or more nitrogen or oxygen atoms}
C08G 18/185	.....	{having cyano groups}
C08G 18/1858	.....	{having carbon-to-nitrogen double bonds}
C08G 18/1866	.....	{having carbon-to-carbon unsaturated bonds}
C08G 18/1875	.....	{containing ammonium salts or mixtures of secondary or tertiary amines and acids}
C08G 18/1883	.....	{having heteroatoms other than oxygen and nitrogen}
C08G 18/1891	.....	{in vaporous state}
C08G 18/20	.....	Heterocyclic amines; Salts thereof
C08G 18/2009	.....	{containing one heterocyclic ring}
C08G 18/2018	.....	{having one nitrogen atom in the ring}
C08G 18/2027	.....	{having two nitrogen atoms in the ring}
C08G 18/2036	.....	{having at least three nitrogen atoms in the ring}
C08G 18/2045	.....	{containing condensed heterocyclic rings}
C08G 18/2054	.....	{having one nitrogen atom in the condensed ring system}
C08G 18/2063	.....	{having two nitrogen atoms in the condensed ring system}
C08G 18/2072	.....	{having at least three nitrogen atoms in the condensed ring system}
C08G 18/2081	.....	{containing at least two non-condensed heterocyclic rings}
C08G 18/209	.....	{having heteroatoms other than oxygen and nitrogen in the ring}
C08G 18/22	....	containing metal compounds
C08G 18/222	.....	{metal compounds not provided for in groups C08G 18/225 to C08G 18/26 }
C08G 18/225	.....	{of alkali or alkaline earth metals}
C08G 18/227	.....	{of antimony, bismuth or arsenic}
C08G 18/24	.....	of tin
C08G 18/242	.....	{organometallic compounds containing tin-carbon bonds}
C08G 18/244	.....	{tin salts of carboxylic acids}
C08G 18/246	.....	{containing also tin-carbon bonds}
C08G 18/248	.....	{inorganic compounds of tin}
C08G 18/26	.....	of lead
C08G 18/28	..	characterised by the compounds used containing active hydrogen

NOTE

For the purpose of groups [C08G 18/28](#) to [C08G 18/69](#), the addition of water for the preparation of cellular materials is not taken into consideration {except in the case, wherein water is the only compound having active hydrogen [C08G 18/302](#). When there is attributed a class in [C08G 18/00](#) for a specific monomer or a catalyst, the addition of water as the sole blowing agent is indicated by indexing code [C08G 2101/0083](#). Moreover specific aggregation forms of water, e.g. absorbed water and water of crystallisation are also classified in [C08J 9/02](#)}

C08G 18/2805	...	{Compounds having only one group containing active hydrogen (vinyl)polymers having terminal groups containing active hydrogen C08G 18/62 }
C08G 18/281	....	{Monocarboxylic acid compounds}
C08G 18/2815	....	{Monohydroxy compounds}
C08G 18/282	.....	{Alkanols, cycloalkanols or arylalkanols including terpenealcohols}
C08G 18/2825	.....	{having at least 6 carbon atoms}
C08G 18/283	.....	{Compounds containing ether groups e.g. oxyalkylated monohydroxy compounds}
C08G 18/2835	.....	{having less than 5 ether groups}
C08G 18/284	.....	{Compounds containing ester groups e.g. oxyalkylated monocarboxylic acids}
C08G 18/2845	.....	{Monohydroxy epoxy compounds}
C08G 18/285	....	{Nitrogen containing compounds}
C08G 18/2855	.....	{Lactams}
C08G 18/286	.....	{Oximes}
C08G 18/2865	.....	{Compounds having only one primary or secondary amino group; Ammonia}
C08G 18/287	.....	{Imine compounds}
C08G 18/2875	.....	{Monohydroxy compounds containing tertiary amino groups}
C08G 18/288	....	{Compounds containing at least one heteroatom other than oxygen or nitrogen}
C08G 18/2885	.....	{containing halogen atoms}
C08G 18/289	.....	{containing silicon}
C08G 18/2895	....	{Compounds containing active methylene groups}
C08G 18/30	...	Low-molecular-weight compounds {(C08G 18/2805 takes precedence)}
C08G 18/302	....	{Water}
C08G 18/305	.....	{creating amino end groups}
C08G 18/307	.....	{Atmospheric humidity}
C08G 18/32	....	Polyhydroxy compounds; Polyamines; Hydroxyamines
C08G 18/3203	.....	{Polyhydroxy compounds}
C08G 18/3206	.....	{aliphatic}
C08G 18/3209	.....	{Aliphatic aldehyde condensates and hydrogenation products thereof}
C08G 18/3212	.....	{containing cycloaliphatic groups}
C08G 18/3215	.....	{containing aromatic groups or benzoquinone groups}
C08G 18/3218	.....	{containing cyclic groups having at least one oxygen atom in the ring}
C08G 18/3221	.....	{hydroxylated esters of carboxylic acids other than higher fatty acids}
C08G 18/3225	.....	{Polyamines}
C08G 18/3228	.....	{acyclic}
C08G 18/3231	.....	{Hydrazine or derivatives thereof}
C08G 18/3234	.....	{cycloaliphatic}
C08G 18/3237	.....	{aromatic (C08G 18/3234 takes precedence)}

C08G 18/324	.....	{containing only one aromatic ring}
C08G 18/3243	.....	{containing two or more aromatic rings}
C08G 18/3246	.....	{heterocyclic, the heteroatom being oxygen or nitrogen in the form of an amino group}
C08G 18/325	.....	{containing secondary or tertiary amino groups (C08G 18/3228 , C08G 18/3234 , C08G 18/3246 take precedence)}
C08G 18/3253	.....	{being in latent form}
C08G 18/3256	.....	{Reaction products of polyamines with aldehydes or ketones}
C08G 18/3259	.....	{Reaction products of polyamines with inorganic or organic acids or derivatives thereof other than metallic salts}
C08G 18/3262	.....	{with carboxylic acids or derivatives thereof}
C08G 18/3265	.....	{with carbondioxide or sulfurdioxide}
C08G 18/3268	.....	{Salt complexes of polyamines}
C08G 18/3271	.....	{Hydroxyamines}
C08G 18/3275	.....	{containing two hydroxy groups}
C08G 18/3278	.....	{containing at least three hydroxy groups}
C08G 18/3281	.....	{containing three hydroxy groups}
C08G 18/3284	.....	{containing four hydroxy groups}
C08G 18/3287	.....	{containing cycloaliphatic groups}
C08G 18/329	.....	{containing aromatic groups}
C08G 18/3293	.....	{containing heterocyclic groups}
C08G 18/3296	.....	{being in latent form}
C08G 18/34	....	Carboxylic acids; Esters thereof with monohydroxyl compounds
C08G 18/341	.....	{Dicarboxylic acids, esters of polycarboxylic acids containing two carboxylic acid groups}
C08G 18/343	.....	{Polycarboxylic acids having at least three carboxylic acid groups}
C08G 18/345	.....	{having three carboxylic acid groups}
C08G 18/346	.....	{having four carboxylic acid groups}
C08G 18/348	.....	{Hydroxycarboxylic acids}
C08G 18/36	....	Hydroxylated esters of higher fatty acids
C08G 18/38	....	having heteroatoms other than oxygen (C08G 18/32 takes precedence)
C08G 18/3802	.....	{having halogens}
C08G 18/3804	.....	{Polyhydroxy compounds}
C08G 18/3806	.....	{having chlorine and/or bromine atoms}
C08G 18/3808	.....	{having chlorine atoms}
C08G 18/381	.....	{having bromine atoms}
C08G 18/3812	.....	{having fluorine atoms}
C08G 18/3814	.....	{Polyamines}
C08G 18/3817	.....	{Hydroxylated esters of higher fatty acids}
C08G 18/3819	.....	{having nitrogen}
C08G 18/3821	.....	{Carboxylic acids; Esters thereof with monohydroxyl compounds}

C08G 18/3823	.....	{containing -N-C=O groups}
C08G 18/3825	.....	{containing amide groups (C08G 18/3821 takes precedence)}
C08G 18/3827	.....	{Bicyclic amide acetals and derivatives thereof}
C08G 18/3829	.....	{containing ureum groups}
C08G 18/3831	.....	{containing urethane groups}
C08G 18/3834	.....	{containing hydrazide or semi-carbazide groups}
C08G 18/3836	.....	{containing azo groups}
C08G 18/3838	.....	{containing cyano groups}
C08G 18/384	.....	{containing nitro groups}
C08G 18/3842	.....	{containing heterocyclic rings having at least one nitrogen atom in the ring}
C08G 18/3844	.....	{containing one nitrogen atom in the ring}
C08G 18/3846	.....	{containing imide groups (C08G 18/3821 takes precedence)}
C08G 18/3848	.....	{containing two nitrogen atoms in the ring}
C08G 18/3851	.....	{containing three nitrogen atoms in the ring}
C08G 18/3853	.....	{containing cyanurate and/or isocyanurate groups}
C08G 18/3855	.....	{having sulfur}
C08G 18/3857	.....	{having nitrogen in addition to sulfur}
C08G 18/3859	.....	{containing -N-C=S groups}
C08G 18/3861	.....	{containing sulfonamide and/or sulfonylhydrazide groups}
C08G 18/3863	.....	{containing groups having sulfur atoms between two carbon atoms, the sulfur atoms being directly linked to carbon atoms or other sulfur atoms}
C08G 18/3865	.....	{containing groups having one sulfur atom between two carbon atoms}
C08G 18/3868	.....	{the sulfur atom belonging to a sulfide group}
C08G 18/387	.....	{in addition to a perfluoroalkyl group}
C08G 18/3872	.....	{the sulfur atom belonging to a sulfoxide or sulfone group}
C08G 18/3874	.....	{containing heterocyclic rings having at least one sulfur atom in the ring}
C08G 18/3876	.....	{containing mercapto groups}
C08G 18/3878	.....	{having phosphorus}
C08G 18/388	.....	{having phosphorus bound to carbon and/or to hydrogen}
C08G 18/3882	.....	{having phosphorus bound to oxygen only}
C08G 18/3885	.....	{Phosphate compounds}
C08G 18/3887	.....	{Phosphite compounds}
C08G 18/3889	.....	{having nitrogen in addition to phosphorus}
C08G 18/3891	.....	{having sulfur in addition to phosphorus}
C08G 18/3893	.....	{containing silicon}
C08G 18/3895	.....	{Inorganic compounds, e.g. aqueous alkalimetalsilicate solutions; Organic derivatives thereof containing no direct silicon-carbon bonds}

C08G 18/3897	.....	{containing heteroatoms other than oxygen, halogens, nitrogen, sulfur, phosphorus or silicon}
C08G 18/40	...	High-molecular-weight compounds {(C08G 18/2805 takes precedence)}
C08G 18/4009	....	{Two or more macromolecular compounds not provided for in one single group of groups C08G 18/42 to C08G 18/64}
C08G 18/4018	.....	{Mixtures of compounds of group C08G 18/42 with compounds of group C08G 18/48}
C08G 18/4027	.....	{Mixtures of compounds of group C08G 18/54 with other macromolecular compounds}
C08G 18/4036	.....	{Mixtures of compounds of group C08G 18/56 with other macromolecular compounds}
C08G 18/4045	.....	{Mixtures of compounds of group C08G 18/58 with other macromolecular compounds}
C08G 18/4054	.....	{Mixtures of compounds of group C08G 18/60 with other macromolecular compounds}
C08G 18/4063	.....	{Mixtures of compounds of group C08G 18/62 with other macromolecular compounds}
C08G 18/4072	.....	{Mixtures of compounds of group C08G 18/63 with other macromolecular compounds}
C08G 18/4081	.....	{Mixtures of compounds of group C08G 18/64 with other macromolecular compounds}
C08G 18/409	....	{Dispersions of polymers of C08G in organic compounds having active hydrogen}
C08G 18/42	....	Polycondensates having carboxylic or carbonic ester groups in the main chain
C08G 18/4202	.....	{Two or more polyesters of different physical or chemical nature (C08G 18/44 takes precedence)}
C08G 18/4205	.....	{containing cyclic groups}
C08G 18/4208	.....	{containing aromatic groups}
C08G 18/4211	.....	{derived from aromatic dicarboxylic acids and dialcohols}
C08G 18/4213	.....	{from terephthalic acid and dialcohols}
C08G 18/4216	.....	{from mixtures or combinations of aromatic dicarboxylic acids and aliphatic dicarboxylic acids and dialcohols}
C08G 18/4219	.....	{from aromatic dicarboxylic acids and dialcohols in combination with polycarboxylic acids and/or polyhydroxy compounds which are at least trifunctional}
C08G 18/4222	.....	{derived from aromatic polyhydroxy compounds and polycarboxylic acids}
C08G 18/4225	.....	{derived from residues obtained from the manufacture of dimethylterephthalate and from polyhydroxy compounds}
C08G 18/4227	.....	{derived from aromatic polycarboxylic acids containing at least two aromatic rings and polyhydroxy compounds}
C08G 18/423	.....	{containing cycloaliphatic groups}
C08G 18/4233	.....	{derived from polymerised higher fatty acids or alcohols}
C08G 18/4236	.....	{containing only aliphatic groups}

C08G 18/4238	.....	{derived from dicarboxylic acids and dialcohols}
C08G 18/4241	.....	{from dicarboxylic acids and dialcohols in combination with polycarboxylic acids and/or polyhydroxy compounds which are at least trifunctional}
C08G 18/4244	.....	{containing oxygen in the form of ether groups}
C08G 18/4247	.....	{derived from polyols containing at least one ether group and polycarboxylic acids}
C08G 18/425	.....	{the polyols containing one or two ether groups}
C08G 18/4252	.....	{derived from polyols containing polyether groups and polycarboxylic acids}
C08G 18/4255	.....	{derived from polyols containing oxyalkylated carbocyclic groups and polycarboxylic acids}
C08G 18/4258	.....	{derived from polycarboxylic acids containing at least one ether group and polyols}
C08G 18/4261	.....	{prepared by oxyalkylation of polyesterpolyols}
C08G 18/4263	.....	{containing carboxylic acid groups}
C08G 18/4266	.....	{prepared from hydroxycarboxylic acids and/or lactones}
C08G 18/4269	.....	{Lactones}
C08G 18/4272	.....	{Privalolactone}
C08G 18/4275	.....	{Valcrolactone and/or substituted valcrolactone}
C08G 18/4277	.....	{Caprolactone and/or substituted caprolactone}
C08G 18/428	.....	{Lactides}
C08G 18/4283	.....	{Hydroxycarboxylic acid or ester}
C08G 18/4286	.....	{prepared from a combination of hydroxycarboxylic acids and/or lactones with polycarboxylic acids or ester forming derivatives thereof and polyhydroxy compounds}
C08G 18/4288	.....	{modified by higher fatty oils or their acids or by resin acids}
C08G 18/4291	.....	{prepared from polyester forming components containing monoepoxy compounds (C08G 18/4266 takes precedence)}
C08G 18/4294	.....	{prepared from polyester forming components containing polyepoxy compounds (C08G 18/4266 takes precedence)}
C08G 18/4297	.....	{prepared from polyester forming components containing aliphatic aldehyde condensates or hydrogenation products thereof having at least two hydroxy groups}
C08G 18/44	.....	Polycarbonates
C08G 18/46	.....	having heteroatoms other than oxygen
C08G 18/4607	.....	{having halogens}
C08G 18/4615	.....	{containing nitrogen}
C08G 18/4623	.....	{containing primary or secondary terminal aminogroups}
C08G 18/463	.....	{containing nitro groups}
C08G 18/4638	.....	{containing heterocyclic rings having at least one nitrogen atom in the ring}
C08G 18/4646	.....	{containing one nitrogen atom in the ring}
C08G 18/4653	.....	{containing two nitrogen atoms in the ring}

C08G 18/4661	.....	{containing three nitrogen atoms in the ring}
C08G 18/4669	.....	{Addition products of unsaturated polyesters with amino compounds}
C08G 18/4676	.....	{containing sulfur}
C08G 18/4684	.....	{containing phosphorus}
C08G 18/4692	.....	{containing silicon}
C08G 18/48	....	Polyethers
C08G 18/4804	.....	{Two or more polyethers of different physical or chemical nature}
C08G 18/4808	.....	{Mixtures of two or more polyetherdiols}
C08G 18/4812	.....	{Mixtures of polyetherdiols with polyetherpolyols having at least three hydroxy groups}
C08G 18/4816	.....	{mixtures of two or more polyetherpolyols having at least three hydroxy groups}
C08G 18/482	.....	{Mixtures of polyethers containing at least one polyether containing nitrogen}
C08G 18/4825	.....	{Polyethers containing two hydroxy groups (C08G 18/4833 to C08G 18/5096 take precedence)}
C08G 18/4829	.....	{Polyethers containing at least three hydroxy groups (C08G 18/4833 to C08G 18/5096 take precedence)}
C08G 18/4833	.....	{Polyethers containing oxyethylene units}
C08G 18/4837	.....	{and other oxyalkylene units}
C08G 18/4841	.....	{containing oxyethylene end groups}
C08G 18/4845	.....	{containing oxypropylene or higher oxyalkylene end groups}
C08G 18/485	.....	{containing mixed oxyethylene-oxypropylene or oxyethylene-higher oxyalkylene end groups}
C08G 18/4854	.....	{Polyethers containing oxyalkylene groups having four carbon atoms in the alkylene group}
C08G 18/4858	.....	{Polyethers containing oxyalkylene groups having more than four carbon atoms in the alkylene group}
C08G 18/4862	.....	{containing at least a part of the ether groups in a side chain}
C08G 18/4866	.....	{having a low unsaturation value}
C08G 18/487	.....	{Polyethers containing cyclic groups}
C08G 18/4875	.....	{containing cycloaliphatic groups}
C08G 18/4879	.....	{containing aromatic groups}
C08G 18/4883	.....	{containing cyclic groups having at least one oxygen atom in the ring}
C08G 18/4887	.....	{containing carboxylic ester groups derived from carboxylic acids other than acids of higher fatty oils or other than resin acids}
C08G 18/4891	.....	{modified with higher fatty oils or their acids or by resin acids}
C08G 18/4895	.....	{prepared from polyepoxy compounds}
C08G 18/50	.....	having heteroatoms other than oxygen
C08G 18/5003	.....	{having halogens}
C08G 18/5006	.....	{having chlorine and/or bromine atoms}
C08G 18/5009	.....	{having chlorine atoms}

C08G 18/5012	.....	{having bromine atoms}
C08G 18/5015	.....	{having fluorine atoms}
C08G 18/5018	.....	{having iodine atoms}
C08G 18/5021	.....	{having nitrogen}
C08G 18/5024	.....	{containing primary and/or secondary amino groups}
C08G 18/5027	.....	{directly linked to carbocyclic groups}
C08G 18/503	.....	{being in latent form}
C08G 18/5033	.....	{containing carbocyclic groups (C08G 18/5024 takes precedence)}
C08G 18/5036	.....	{containing -N-C=O groups}
C08G 18/5039	.....	{containing amide groups}
C08G 18/5042	.....	{containing ureum groups}
C08G 18/5045	.....	{containing urethane groups}
C08G 18/5048	.....	{Products of hydrolysis of polyether-urethane prepolymers containing isocyanate groups}
C08G 18/5051	.....	{containing cyano groups}
C08G 18/5054	.....	{containing heterocyclic rings having at least one nitrogen atom in the ring}
C08G 18/5057	.....	{containing one nitrogen atom in the ring}
C08G 18/506	.....	{containing two nitrogen atoms in the ring}
C08G 18/5063	.....	{containing three nitrogen atoms in the ring}
C08G 18/5066	.....	{having halogens in addition to nitrogen}
C08G 18/5069	.....	{prepared from polyepoxy compounds}
C08G 18/5072	.....	{containing sulfur}
C08G 18/5075	.....	{having phosphorus}
C08G 18/5078	.....	{having phosphorus bound to carbon and/or to hydrogen}
C08G 18/5081	.....	{having phosphorus bound to oxygen only}
C08G 18/5084	.....	{Phosphate compounds}
C08G 18/5087	.....	{Phosphite compounds}
C08G 18/509	.....	{having nitrogen in addition to phosphorus}
C08G 18/5093	.....	{having sulfur in addition to phosphorus}
C08G 18/5096	.....	{containing silicon}
C08G 18/52	....	Polythioethers
C08G 18/54	....	Polycondensates of aldehydes
C08G 18/542	.....	{with phenols}
C08G 18/544	.....	{with nitrogen compounds}
C08G 18/546	.....	{Oxyalkylated polycondensates of aldehydes}
C08G 18/548	.....	{Polycondensates of aldehydes with ketones}
C08G 18/56	....	Polyacetals

C08G 18/58	....	Epoxy resins {(C08G 18/42, C08G 18/48 take precedence; reaction products of epoxy resins with at least equivalent amounts of compounds containing active hydrogen C08G 18/6407, with at least equivalent amounts of amines C08G 18/6415; polymeric products of isocyanates or isothiocyanates with epoxy compounds having no active hydrogen C08G 18/003)}
C08G 18/581	.....	{Reaction products of epoxy resins with less than equivalent amounts of compounds containing active hydrogen added before or during the reaction with the isocyanate component (with amines C08G 18/584)}
C08G 18/582	.....	{having halogens}
C08G 18/584	.....	{having nitrogen}
C08G 18/585	.....	{having sulfur}
C08G 18/587	.....	{having phosphorus}
C08G 18/588	.....	{having silicon}
C08G 18/60	....	Polyamides or polyester-amides
C08G 18/603	.....	{Polyamides}
C08G 18/606	.....	{Polyester-amides}
C08G 18/61	....	Polysiloxanes
C08G 18/615	.....	{containing carboxylic acid groups}
C08G 18/62	....	Polymers of compounds having carbon-to-carbon double bonds
C08G 18/6204	.....	{Polymers of olefins (unsaturated polymers of conjugated dienes C08G 18/69)}
C08G 18/6208	.....	{Hydrogenated polymers of conjugated dienes}
C08G 18/6212	.....	{Polymers of alkenylalcohols; Acetals thereof; Oxyalkylation products thereof}
C08G 18/6216	.....	{Polymers of alpha-beta ethylenically unsaturated carboxylic acids or of derivatives thereof}
C08G 18/622	.....	{Polymers of esters of alpha-beta ethylenically unsaturated carboxylic acids}
C08G 18/6225	.....	{Polymers of esters of acrylic or methacrylic acid}
C08G 18/6229	.....	{Polymers of hydroxy groups containing esters of acrylic or methacrylic acid with aliphatic polyalcohols}
C08G 18/6233	.....	{the monomers or polymers being esterified with carboxylic acids or lactones}
C08G 18/6237	.....	{Polymers of esters containing glycidyl groups of alpha-beta ethylenically unsaturated carboxylic acids; reaction products thereof}
C08G 18/6241	.....	{Polymers of esters containing hydroxy groups of alpha-beta ethylenically unsaturated carboxylic acids with epoxy compounds other than alkylene oxides and hydroxyglycidyl compounds (esterification during or after polymerization C08G 18/6258)}
C08G 18/6245	.....	{Polymers having terminal groups containing active hydrogen}
C08G 18/625	.....	{Polymers of alpha-beta ethylenically unsaturated carboxylic acids; hydrolyzed polymers of esters of these acids}
C08G 18/6254	.....	{Polymers of alpha-beta ethylenically unsaturated carboxylic acids and of esters of these acids containing hydroxy groups}

C08G 18/6258	.....	{the acid groups being esterified with polyhydroxy compounds or epoxy compounds during or after polymerization}
C08G 18/6262	.....	{Polymers of nitriles derived from alpha-beta ethylenically unsaturated carboxylic acids}
C08G 18/6266	.....	{Polymers of amides or imides from alpha-beta ethylenically unsaturated carboxylic acids}
C08G 18/627	.....	{Polymers of hydroxylated esters of unsaturated higher fatty acids}
C08G 18/6275	.....	{Polymers of halogen containing compounds having carbon-to-carbon double bonds; halogenated polymers of compounds having carbon-to-carbon double bonds (C08G 18/6212 takes precedence)}
C08G 18/6279	.....	{containing fluorine atoms}
C08G 18/6283	.....	{Polymers of nitrogen containing compounds having carbon-to-carbon double bonds (C08G 18/6262 , C08G 18/6266 take precedence)}
C08G 18/6287	.....	{Polymers of sulfur containing compounds having carbon-to-carbon double bonds}
C08G 18/6291	.....	{Polymers of phosphorus containing compounds having carbon-to-carbon double bonds}
C08G 18/6295	.....	{Polymers of silicon containing compounds having carbon-to-carbon double bonds}
C08G 18/63	....	Block or graft polymers obtained by polymerising compounds having carbon-to-carbon double bonds on to polymers
C08G 18/631	.....	{onto polyesters and/or polycarbonates}
C08G 18/632	.....	{onto polyethers}
C08G 18/633	.....	{onto polymers of compounds having carbon-to-carbon double bonds}
C08G 18/635	.....	{onto unsaturated polymers}
C08G 18/636	.....	{characterised by the presence of a dispersion-stabiliser}
C08G 18/637	.....	{characterised by the in situ polymerisation of the compounds having carbon-to-carbon double bonds in a reaction mixture of saturated polymers and isocyanates}
C08G 18/638	.....	{characterised by the use of compounds having carbon-to-carbon double bonds other than styrene and/or olefinic nitriles}
C08G 18/64	....	Macromolecular compounds not provided for by groups C08G 18/42 to C08G 18/63
C08G 18/6407	.....	{Reaction products of epoxy resins with at least equivalent amounts of compounds containing active hydrogen (with amines C08G 18/643 ; C08G 18/42 , C08G 18/48 take precedence)}
C08G 18/6415	.....	{having nitrogen}
C08G 18/6423	.....	{Polyalkylene polyamines; polyethylenimines; Derivatives thereof (polyamides or polyesteramides C08G 18/60)}
C08G 18/643	.....	{Reaction products of epoxy resins with at least equivalent amounts of amines}
C08G 18/6438	.....	{Polyimides or polyesterimides}
C08G 18/6446	.....	{Proteins and derivatives thereof}
C08G 18/6453	.....	{having sulfur}
C08G 18/6461	.....	{having phosphorus}

C08G 18/6469	.....	{having silicon}
C08G 18/6476	.....	{Bituminous materials, e.g. asphalt, coal tar, pitch; derivatives thereof}
C08G 18/6484	.....	{Polysaccharides and derivatives thereof}
C08G 18/6492	.....	{Lignin containing materials; Wood resins; Wood tars; Derivatives thereof}
C08G 18/65	...	Low-molecular-weight compounds having active hydrogen with high-molecular-weight compounds having active hydrogen {(C08G 18/2805 takes precedence)}
C08G 18/6505	....	{the low-molecular compounds being compounds of group C08G 18/32 or polyamines of C08G 18/38}
C08G 18/6511	.....	{compounds of group C08G 18/3203}
C08G 18/6517	.....	{having at least three hydroxy groups}
C08G 18/6523	.....	{Compounds of group C08G 18/3225 or C08G 18/3271 or polyamines of C08G 18/38}
C08G 18/6529	.....	{Compounds of group C08G 18/3225 or polyamines of C08G 18/38}
C08G 18/6535	.....	{Compounds of group C08G 18/3271}
C08G 18/6541	....	{the low-molecular compounds being compounds of group C08G 18/34}
C08G 18/6547	....	{the low-molecular compounds being compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38}
C08G 18/6552	....	{Compounds of group C08G 18/63}
C08G 18/6558	.....	{with compounds of group C08G 18/32 or polyamines of C08G 18/38}
C08G 18/6564	.....	{with compounds of group C08G 18/3203}
C08G 18/657	.....	{with compounds of C08G 18/3225 or C08G 18/3271 or polyamines of C08G 18/38}
C08G 18/6576	....	{Compounds of group C08G 18/69}
C08G 18/6582	.....	{with compounds of group C08G 18/32 or polyamines of C08G 18/38}
C08G 18/6588	.....	{with compounds of group C08G 18/3203}
C08G 18/6594	.....	{with compounds of C08G 18/3225 or C08G 18/3271 or polyamines of C08G 18/38}
C08G 18/66	....	Compounds of groups C08G 18/42, C08G 18/48, or C08G 18/52
C08G 18/6603	.....	{with compounds of group C08G 18/32 or polyamines of C08G 18/38}
C08G 18/6607	.....	{with compounds of group C08G 18/3203}
C08G 18/6611	.....	{having at least three hydroxy groups}
C08G 18/6614	.....	{with compounds of group C08G 18/3225 or C08G 18/3271 and/or polyamines of C08G 18/38}
C08G 18/6618	.....	{with compounds of group C08G 18/3225 or polyamines of C08G 18/38}
C08G 18/6622	.....	{with compounds of group C08G 18/3271}
C08G 18/6625	.....	{with compounds of group C08G 18/34}
C08G 18/6629	.....	{with compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38}
C08G 18/6633	.....	{Compounds of group C08G 18/42}
C08G 18/6637	.....	{with compounds of group C08G 18/32 or polyamines of C08G 18/38}
C08G 18/664	.....	{with compounds of group C08G 18/3203}

C08G 18/6644	.....	{having at least three hydroxy groups}
C08G 18/6648	.....	{with compounds of group C08G 18/3225 or C08G 18/3271 and/or polyamines of C08G 18/38 }
C08G 18/6651	.....	{with compounds of group C08G 18/3225 or polyamines of C08G 18/38 }
C08G 18/6655	.....	{with compounds of group C08G 18/3271 }
C08G 18/6659	.....	{with compounds of group C08G 18/34 }
C08G 18/6662	.....	{with compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38 }
C08G 18/6666	.....	{Compounds of group C08G 18/48 or C08G 18/52 }
C08G 18/667	.....	{with compounds of group C08G 18/32 or polyamines of C08G 18/38 }
C08G 18/6674	.....	{with compounds of group C08G 18/3203 }
C08G 18/6677	.....	{having at least three hydroxy groups}
C08G 18/6681	.....	{with compounds of group C08G 18/32 or C08G 18/3271 and/or polyamines of C08G 18/38 }
C08G 18/6685	.....	{with compounds of group C08G 18/3225 or polyamines of C08G 18/38 }
C08G 18/6688	.....	{with compounds of group C08G 18/3271 }
C08G 18/6692	.....	{with compounds of group C08G 18/34 }
C08G 18/6696	.....	{with compounds of group C08G 18/36 or hydroxylated esters of higher fatty acids of C08G 18/38 }
C08G 18/67	...	Unsaturated compounds having active hydrogen

NOTE

After the symbols [C08G 18/67](#) and [C08G 18/671](#) to [C08G 18/679](#) and separated by a "," sign is indicated the manufacture of polymers containing ionic or ionogenic groups from unsaturated low-molecular-weight compounds having active hydrogen by one of the symbols [C08G 18/0804](#) to [C08G 18/0833](#)

After the symbols [C08G 18/671](#) to [C08G 18/672](#) and separated by a "," sign are indicated the polymer-backbone forming high-molecular-weight compounds containing active hydrogen or their combination with low-molecular-weight compounds by one of the symbols [C08G 18/40](#) to [C08G 18/64](#) without subnotations, [C08G 18/65](#) to [C08G 18/66](#), [C08G 18/6705](#) and [C08G 18/6795](#) to [C08G 18/69](#). This note does not apply for the symbols [C08G 18/6725](#) and [C08G 18/673](#)

C08G 18/6705	....	{Unsaturated polymers not provided for in the groups C08G 18/671 , C08G 18/6795 , C08G 18/68 or C08G 18/69 }
C08G 18/671	....	{Unsaturated compounds having only one group containing active hydrogen (takes precedence on groups C08G 18/675 to C08G 18/69)}
C08G 18/6715	.....	{Unsaturated monofunctional alcohols or amines}
C08G 18/672	.....	{Esters of acrylic or alkyl acrylic acid having only one group containing active hydrogen}
C08G 18/6725	.....	{containing ester groups other than acrylate or alkylacrylate ester groups}

C08G 18/673	.....	{containing two or more acrylate or alkylacrylate ester groups}
C08G 18/6735	.....	{Unsaturated compounds containing the unsaturation at least partially in a non-aromatic carbocyclic ring}
C08G 18/674	.....	{Unsaturated compounds containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring}
C08G 18/6745	.....	{Acetylenic compounds}
C08G 18/675	....	{Low-molecular-weight compounds}
C08G 18/6755	.....	{Unsaturated carboxylic acids}
C08G 18/676	.....	{containing the unsaturation at least partially in a non-aromatic carbocyclic ring}
C08G 18/6765	.....	{containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring}
C08G 18/677	.....	{containing heteroatoms other than oxygen and the nitrogen of primary or secondary amino groups}
C08G 18/6775	.....	{containing halogen}
C08G 18/678	.....	{containing nitrogen}
C08G 18/6785	.....	{containing phosphorus}
C08G 18/679	.....	{Acetylenic compounds}
C08G 18/6795	....	{Unsaturated polyethers}
C08G 18/68	....	Unsaturated polyesters
C08G 18/683	.....	{containing cyclic groups}
C08G 18/686	.....	{containing cycloaliphatic groups}
C08G 18/69	....	Polymers of conjugated dienes {hydrogenated polymers of conjugated dienes C08G 18/6208 }
C08G 18/692	.....	{containing carboxylic acid groups}
C08G 18/694	.....	{containing carboxylic ester groups}
C08G 18/696	.....	{containing heteroatoms other than oxygen and other than the heteroatoms of copolymerised vinyl monomers}
C08G 18/698	.....	{Mixtures with compounds of group C08G 18/40 }
C08G 18/70	..	characterised by the isocyanates or isothiocyanates used
C08G 18/701	...	{Compounds forming isocyanates or isothiocyanates in situ (C08G 18/80 takes precedence)}
C08G 18/702	...	{Isocyanates or isothiocyanates containing compounds having carbon-to-carbon double bonds; Telomers thereof}
C08G 18/703	...	{Isocyanates or isothiocyanates transformed in a latent form by physical means}
C08G 18/705	....	{Dispersions of isocyanates or isothiocyanates in a liquid medium (C08G 18/702 takes precedence)}
C08G 18/706	.....	{the liquid medium being water}
C08G 18/707	.....	{the liquid medium being a compound containing active hydrogen not comprising water}
C08G 18/708	...	{Isocyanates or isothiocyanates containing non-reactive high-molecular-weight compounds}
C08G 18/71	...	Monoisocyanates or monoisothiocyanates

C08G 18/711	....	{containing oxygen in addition to isocyanate oxygen}
C08G 18/712	....	{containing halogens}
C08G 18/714	....	{containing nitrogen in addition to isocyanate or isothiocyanate nitrogen}
C08G 18/715	....	{containing sulfur in addition to isothiocyanate sulfur}
C08G 18/717	....	{containing phosphorus}
C08G 18/718	....	{containing silicon}
C08G 18/72	...	Polyisocyanates or polyisothiocyanates
C08G 18/721	....	{Two or more polyisocyanates not provided for in one single group C08G 18/73 to C08G 18/80 }
C08G 18/722	.....	{Combination of two or more aliphatic and/or cycloaliphatic polyisocyanates}
C08G 18/724	.....	{Combination of aromatic polyisocyanates with (cyclo)aliphatic polyisocyanates}
C08G 18/725	.....	{Combination of polyisocyanates of C08G 18/78 with other polyisocyanates}
C08G 18/727	.....	{comprising distillation residues or non-distilled raw phosgenation products}
C08G 18/728	....	{Polymerisation products of compounds having carbon-to-carbon unsaturated bonds and having isocyanate or isothiocyanate groups or groups forming isocyanate or isothiocyanate groups}
C08G 18/73	....	acyclic
C08G 18/735	.....	{containing one isocyanate or isothiocyanate group linked to a primary carbon atom and at least one isocyanate or isothiocyanate group linked to a tertiary carbon atom}
C08G 18/74	....	cyclic
C08G 18/75	.....	cycloaliphatic
C08G 18/751	.....	{containing only one cycloaliphatic ring}
C08G 18/752	.....	{containing at least one isocyanate or isothiocyanate group linked to the cycloaliphatic ring by means of an aliphatic group}
C08G 18/753	.....	{containing one isocyanate or isothiocyanate group linked to the cycloaliphatic ring by means of an aliphatic group having a primary carbon atom next to the isocyanate or isothiocyanate group}
C08G 18/755	.....	{and at least one isocyanate or isothiocyanate group linked to a secondary carbon atom of the cycloaliphatic ring, e.g. isophorone diisocyanate}
C08G 18/756	.....	{and at least one isocyanate or isothiocyanate group linked to a tertiary carbon atom of the cycloaliphatic ring}
C08G 18/757	.....	{containing at least two isocyanate or isothiocyanate groups linked to the cycloaliphatic ring by means of an aliphatic group}
C08G 18/758	.....	{containing two or more cycloaliphatic rings}
C08G 18/76	....	aromatic
C08G 18/7607	.....	{Compounds of C08G 18/7614 and of C08G 18/7657 }
C08G 18/7614	.....	{containing only one aromatic ring}
C08G 18/7621	.....	{being toluene diisocyanate including isomer mixtures}

C08G 18/7628	.....	{containing at least one isocyanate or isothiocyanate group linked to the aromatic ring by means of an aliphatic group}
C08G 18/7635	.....	{containing one isocyanate or isothiocyanate group linked to the aromatic ring by means of an aliphatic group and at least one isocyanate or isothiocyanate group directly linked to the aromatic ring, e.g. isocyanatobenzylisocyanate}
C08G 18/7642	.....	{containing at least two isocyanate or isothiocyanate groups linked to the aromatic ring by means of an aliphatic group having a primary carbon atom next to the isocyanate or isothiocyanate groups, e.g. xylylene diisocyanate or homologues substituted on the aromatic ring}
C08G 18/765	.....	{alpha, alpha, alpha', alpha', -tetraalkylxylylene diisocyanate or homologues substituted on the aromatic ring}
C08G 18/7657	.....	{containing two or more aromatic rings}
C08G 18/7664	.....	{containing alkylene polyphenyl groups}
C08G 18/7671	.....	{containing only one alkylene bisphenyl group}
C08G 18/7678	.....	{containing condensed aromatic rings}
C08G 18/7685	.....	{containing two or more non-condensed aromatic rings directly linked to each other}
C08G 18/7692	.....	{containing at least one isocyanate or isothiocyanate group linked to an aromatic ring by means of an aliphatic group}
C08G 18/77	....	having heteroatoms in addition to the isocyanate or isothiocyanate nitrogen and oxygen or sulfur
C08G 18/771	.....	{oxygen}
C08G 18/773	.....	{halogens}
C08G 18/775	.....	{sulfur}
C08G 18/776	.....	{phosphorus}
C08G 18/778	.....	{silicon}
C08G 18/78	.....	Nitrogen {(C08G 18/775, C08G 18/776 take precedence)}
C08G 18/7806	.....	{containing -N-C=O groups}
C08G 18/7812	.....	{containing amide groups}
C08G 18/7818	.....	{containing ureum or ureum derivative groups}
C08G 18/7825	.....	{containing ureum groups}
C08G 18/7831	.....	{containing biuret groups}
C08G 18/7837	.....	{containing allophanate groups}
C08G 18/7843	.....	{containing urethane groups}
C08G 18/785	.....	{containing tertiary amino groups}
C08G 18/7856	.....	{containing azo groups}
C08G 18/7862	.....	{containing cyano groups or aldimine or ketimine groups}
C08G 18/7868	.....	{containing nitro groups}
C08G 18/7875	.....	{containing heterocyclic rings having at least one nitrogen atom in the ring}
C08G 18/7881	.....	{having one nitrogen atom in the ring}
C08G 18/7887	.....	{having two nitrogen atoms in the ring}

C08G 18/7893	.....	{having three nitrogen atoms in the ring}
C08G 18/79	.....	characterised by the polyisocyanates used, these having groups formed by oligomerisation of isocyanates or isothiocyanates
C08G 18/791	.....	{containing isocyanurate groups}
C08G 18/792	.....	{formed by oligomerisation of aliphatic and/or cycloaliphatic isocyanates or isothiocyanates}
C08G 18/794	.....	{formed by oligomerisation of aromatic isocyanates or isothiocyanates}
C08G 18/795	.....	{formed by oligomerisation of mixtures of aliphatic and/or cycloaliphatic isocyanates or isothiocyanates with aromatic isocyanates or isothiocyanates}
C08G 18/797	.....	{containing carbodiimide and/or uretone-imine groups}
C08G 18/798	.....	{containing urethdione groups}
C08G 18/80	....	Masked polyisocyanates
C08G 18/8003	.....	{masked with compounds having at least two groups containing active hydrogen}
C08G 18/8006	.....	{with compounds of C08G 18/32 }
C08G 18/8009	.....	{with compounds of C08G 18/3203 }
C08G 18/8012	.....	{with diols}
C08G 18/8016	.....	{Masked aliphatic or cycloaliphatic polyisocyanates}
C08G 18/8019	.....	{Masked aromatic polyisocyanates}
C08G 18/8022	.....	{with polyols having at least three hydroxy groups}
C08G 18/8025	.....	{Masked aliphatic or cycloaliphatic polyisocyanates}
C08G 18/8029	.....	{Masked aromatic polyisocyanates}
C08G 18/8032	.....	{Masked aliphatic or cycloaliphatic polyisocyanates not provided for in one single of the groups C08G 18/8016 and C08G 18/8025 }
C08G 18/8035	.....	{Masked aromatic polyisocyanates not provided for in one single of the groups C08G 18/8019 and C08G 18/8029 }
C08G 18/8038	.....	{with compounds of C08G 18/3225 }
C08G 18/8041	.....	{with compounds of C08G 18/3271 }
C08G 18/8045	.....	{with water}
C08G 18/8048	.....	{with compounds of C08G 18/34 }
C08G 18/8051	.....	{with compounds of C08G 18/36 }
C08G 18/8054	.....	{with compounds of C08G 18/38 }
C08G 18/8058	.....	{with compounds of C08G 18/3819 }
C08G 18/8061	.....	{masked with compounds having only one group containing active hydrogen}
C08G 18/8064	.....	{with monohydroxy compounds}
C08G 18/8067	.....	{phenolic compounds}
C08G 18/807	.....	{with nitrogen containing compounds}
C08G 18/8074	.....	{Lactams}
C08G 18/8077	.....	{Oximes}

C08G 18/808	.....	{Monoamines}
C08G 18/8083	.....	{with compounds containing at least one heteroatom other than oxygen or nitrogen}
C08G 18/8087	.....	{containing halogen atoms}
C08G 18/809	.....	{containing silicon}
C08G 18/8093	.....	{Compounds containing active methylene groups}
C08G 18/8096	.....	{with two or more compounds having only one group containing active hydrogen}
C08G 18/81	...	Unsaturated isocyanates or isothiocyanates

NOTE

After the symbols [C08G 18/81](#) to [C08G 18/8191](#) and separated by a "," sign is indicated the manufacture of polymers containing ionic or ionogenic groups by one of the symbols [C08G 18/0804](#) to [C08G 18/0833](#)

After the symbols [C08G 18/8158](#) to [C08G 18/8175](#) and separated by a "," sign are indicated the polymer-backbone forming high-molecular-weight compounds containing active hydrogen or their combination with low-molecular-weight compounds by one of the symbols [C08G 18/40](#) to [C08G 18/64](#) without subnotations, [C08G 18/65](#) to [C08G 18/66](#), [C08G 18/6705](#) and [C08G 18/6795](#) to [C08G 18/69](#)

C08G 18/8108	....	{having only one isocyanate or isothiocyanate group}
C08G 18/8116	.....	{esters of acrylic or alkylacrylic acid having only one isocyanate or isothiocyanate group}
C08G 18/8125	....	{having two or more isocyanate or isothiocyanate groups}
C08G 18/8133	....	{having acetylenic groups}
C08G 18/8141	....	{masked}
C08G 18/815	.....	{Polyisocyanates or polyisothiocyanates masked with unsaturated compounds having active hydrogen}
C08G 18/8158	.....	{with unsaturated compounds having only one group containing active hydrogen}
C08G 18/8166	.....	{with unsaturated monofunctional alcohols or amines}
C08G 18/8175	.....	{with esters of acrylic or alkylacrylic acid having only one group containing active hydrogen}
C08G 18/8183	.....	{with unsaturated compounds containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring}
C08G 18/8191	.....	{with acetylenic compounds having active hydrogen}
C08G 18/82	..	Post-polymerisation treatment
C08G 18/83	..	Chemically modified polymers
C08G 18/831	...	{by oxygen-containing compounds inclusive of carbonic acid halogenides, carboxylic acid halogenides and epoxy halides (by aldehydes C08G 18/84 , by peroxides C08G 18/86)}
C08G 18/832	....	{by water acting as hydrolizing agent (reaction of isocyanates with water C08G 18/302 ; reaction of isocyanate prepolymers with water C08G 18/10+C08G 18/302)}

C08G 18/833	...	{by nitrogen containing compounds (by azo compounds C08G 18/85)}
C08G 18/834	...	{by compounds containing a thiol group}
C08G 18/835	....	{Unsaturated polymers modified by compounds containing a thiol group}
C08G 18/836	...	{by phosphorus containing compounds}
C08G 18/837	...	{by silicon containing compounds}
C08G 18/838	...	{by compounds containing heteroatoms other than oxygen, halogens, nitrogen, sulfur, phosphorus or silicon}
C08G 18/84	...	by aldehydes
C08G 18/85	...	by azo compounds
C08G 18/86	...	by peroxides
C08G 18/87	...	by sulfur

C08G 59/00 **Polycondensates containing more than one epoxy group per molecule (low-molecular-weight polyepoxy compounds [C07](#)); Macromolecules obtained by polymerising compounds containing more than one epoxy group per molecule using curing agents or catalysts which react with the epoxy groups**

C08G 59/02	.	Polycondensates containing more than one epoxy group per molecule
C08G 59/022	..	{characterised by the preparation process or apparatus used}
C08G 59/025	..	{characterised by the purification methods used}
C08G 59/027	..	{obtained by epoxidation of unsaturated precursor, e.g. polymer or monomer}
C08G 59/04	..	of polyhydroxy compounds with epihalohydrins or precursors thereof
C08G 59/06	...	of polyhydric phenols
C08G 59/063	....	{with epihalohydrins}
C08G 59/066	....	{with chain extension or advancing agents}
C08G 59/08	....	from phenol-aldehyde condensates
C08G 59/10	..	of polyamines with epihalohydrins or precursors thereof
C08G 59/12	..	of polycarboxylic acids with epihalohydrins or precursors thereof
C08G 59/14	.	Polycondensates modified by chemical after-treatment
C08G 59/1405	..	{with inorganic compounds}
C08G 59/1411	...	{containing sulfur}
C08G 59/1416	....	{Hydrogen sulfide}
C08G 59/1422	...	{containing phosphorus}
C08G 59/1427	...	{with water, e.g. hydrolysis}
C08G 59/1433	..	{with organic low-molecular-weight compounds}
C08G 59/1438	...	{containing oxygen}
C08G 59/1444	....	{Monoalcohols}
C08G 59/145	....	{Compounds containing one epoxy group}
C08G 59/1455	....	{Monocarboxylic acids, anhydrides, halides, or low-molecular-weight esters thereof}
C08G 59/1461	.....	{Unsaturated monoacids}
C08G 59/1466	.....	{Acrylic or methacrylic acids}
C08G 59/1472	.....	{Fatty acids}

- C08G 59/1477 ... {containing nitrogen}
- C08G 59/1483 ... {containing sulfur}
- C08G 59/1488 ... {containing phosphorus}
- C08G 59/1494 .. {followed by a further chemical treatment thereof}
- C08G 59/18 . Macromolecules obtained by polymerising compounds containing more than one epoxy group per molecule using curing agents or catalysts which react with the epoxy groups; { e.g. general methods of curing}
- C08G 59/182 .. {using pre-adducts of epoxy compounds with curing agents}
- C08G 59/184 ... {with amines}
- C08G 59/186 ... {with acids}
- C08G 59/188 .. {using encapsulated compounds}
- C08G 59/20 .. characterised by the epoxy compounds used

NOTE

Preparation and curing of epoxy polycondensates, in which the epoxy polycondensate is not exclusively low-molecular-weight compound and in which the method of curing is not important, are classified only in groups [C08G 59/02](#) to [C08G 59/12](#).

- C08G 59/22 ... Di-epoxy compounds
- C08G 59/223 {together with monoepoxy compounds}
- C08G 59/226 {Mixtures of di-epoxy compounds}
- C08G 59/24 carbocyclic
- C08G 59/245 {aromatic}
- C08G 59/26 heterocyclic
- C08G 59/28 containing acyclic nitrogen atoms
- C08G 59/30 containing atoms other than carbon, hydrogen, oxygen and nitrogen
- C08G 59/302 {containing sulfur}
- C08G 59/304 {containing phosphorus}
- C08G 59/306 {containing silicon}
- C08G 59/308 {containing halogen atoms}
- C08G 59/32 ... Epoxy compounds containing three or more epoxy groups
- C08G 59/3209 {obtained by polymerisation of unsaturated mono-epoxy compounds}
- C08G 59/3218 {Carbocyclic compounds}
- C08G 59/3227 {Compounds containing acyclic nitrogen atoms}
- C08G 59/3236 {Heterocyclic compounds}
- C08G 59/3245 {containing only nitrogen as a heteroatom}
- C08G 59/3254 {containing atoms other than carbon, hydrogen, oxygen or nitrogen}
- C08G 59/3263 {containing sulfur}
- C08G 59/3272 {containing phosphorus}
- C08G 59/3281 {containing silicon}
- C08G 59/329 {containing halogen atoms}

C08G 59/34	....	obtained by epoxydation of an unsaturated polymer
C08G 59/36	....	together with mono-epoxy compounds
C08G 59/38	....	together with di-epoxy compounds
C08G 59/40	..	characterised by the curing agents used
C08G 59/4007	...	{Curing agents not provided for by the groups C08G 59/42 to C08G 59/66 }
C08G 59/4014	....	{Nitrogen containing compounds}
C08G 59/4021	.....	{Ureas; Thioureas; Guanidines; Dicyandiamides}
C08G 59/4028	.....	{Isocyanates; Thioisocyanates}
C08G 59/4035	.....	{Hydrazines; Hydrazides}
C08G 59/4042	.....	{Imines; Imides}
C08G 59/405	.....	{Oximes}
C08G 59/4057	.....	{Carbamates}
C08G 59/4064	....	{sulfur containing compounds (C08G 59/4021 , C08G 59/4028 take precedence)}
C08G 59/4071	....	{phosphorus containing compounds}
C08G 59/4078	....	{boron containing compounds}
C08G 59/4085	....	{silicon containing compounds}
C08G 59/4092	....	{titanium containing compounds}
C08G 59/42	...	Polycarboxylic acids; Anhydrides, halides or low molecular weight esters thereof
C08G 59/4207	....	{aliphatic}
C08G 59/4215	....	{cycloaliphatic}
C08G 59/4223	....	{aromatic}
C08G 59/423	....	{containing an atom other than oxygen belonging to a functional groups to C08G 59/42 , carbon and hydrogen}
C08G 59/4238	....	{heterocyclic}
C08G 59/4246	....	{polymers with carboxylic terminal groups}
C08G 59/4253	.....	{Rubbers}
C08G 59/4261	.....	{Macromolecular compounds obtained by reactions involving only unsaturated carbon-to-carbon bindings (C08G 59/4253 takes precedence)}
C08G 59/4269	.....	{Macromolecular compounds obtained by reactions other than those involving unsaturated carbon-to-carbon bindings (C08G 59/4253 takes precedence)}
C08G 59/4276	.....	{Polyesters}
C08G 59/4284	....	{together with other curing agents}
C08G 59/4292	....	{together with monocarboxylic acids}
C08G 59/44	...	Amides
C08G 59/442	....	{Thioamides}
C08G 59/444	....	{Sulfonamides}
C08G 59/446	....	{Phosphoramides}
C08G 59/448	....	{Lactames}
C08G 59/46	....	together with other curing agents

C08G 59/48	.....	with polycarboxylic acids, or with anhydrides, halides or low-molecular-weight esters thereof
C08G 59/50	...	Amines
C08G 59/5006	....	{aliphatic}
C08G 59/5013	.....	{containing more than seven carbon atoms, e.g. fatty amines}
C08G 59/502	.....	{Polyalkylene polyamines}
C08G 59/5026	....	{cycloaliphatic}
C08G 59/5033	....	{aromatic}
C08G 59/504	....	{containing an atom other than nitrogen belonging to the amine group, carbon and hydrogen}
C08G 59/5046	....	{heterocyclic}
C08G 59/5053	.....	{containing only nitrogen as a heteroatom}
C08G 59/506	.....	{having one nitrogen atom in the ring}
C08G 59/5066	.....	{Aziridines or their derivatives}
C08G 59/5073	.....	{having two nitrogen atoms in the ring}
C08G 59/508	.....	{having three nitrogen atoms in the ring}
C08G 59/5086	.....	{Triazines; Melamines; Guanamines}
C08G 59/5093	....	{Complexes of amines}
C08G 59/52	....	Amino carboxylic acids
C08G 59/54	....	Amino amides>
C08G 59/56	....	together with other curing agents
C08G 59/58	.....	with polycarboxylic acids or with anhydrides, halides, or low-molecular-weight esters thereof
C08G 59/60	.....	with amides
C08G 59/62	...	Alcohols or phenols
C08G 59/621	....	{Phenols}
C08G 59/623	.....	{Aminophenols}
C08G 59/625	....	{Hydroxyacids}
C08G 59/626	.....	{Lactones}
C08G 59/628	.....	{Phenolcarboxylic acids}
C08G 59/64	....	Amino alcohols
C08G 59/66	...	Mercaptans
C08G 59/68	..	characterised by the catalysts used
C08G 59/681	...	{Metal alcoholates, phenolates or carboxylates}
C08G 59/682	....	{Alcoholates}
C08G 59/683	....	{Phenolates}
C08G 59/685	....	{Carboxylates}
C08G 59/686	...	{containing nitrogen}
C08G 59/687	...	{containing sulfur}
C08G 59/688	...	{containing phosphorus}
C08G 59/70	...	Chelates

C08G 59/72 . . . Complexes of boron halides

C08G 61/00 **Macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain of the macromolecule** ([C08G 2/00](#) to [C08G 16/00](#) take precedence)

NOTE

In this group, it is desirable to add the indexing codes [C08G 2261/00](#) to [C08G 2261/964](#)

- C08G 61/02 . Macromolecular compounds containing only carbon atoms in the main chain of the macromolecule, e.g. polyxylylenes
- C08G 61/025 . . {Polyxylylenes}
- C08G 61/04 . . only aliphatic carbon atoms
- C08G 61/06 . . . prepared by ring-opening of carbocyclic compounds
- C08G 61/08 of carbocyclic compounds containing one or more carbon-to-carbon double bonds in the ring
- C08G 61/10 . . only aromatic carbon atoms, e.g. polyphenylenes
- C08G 61/12 . Macromolecular compounds containing atoms other than carbon in the main chain of the macromolecule
- C08G 61/121 . . {derived from organic halides}
- C08G 61/122 . . {derived from five- or six-membered heterocyclic compounds, other than imides}
- C08G 61/123 . . . {derived from five-membered heterocyclic compounds}
- C08G 61/124 {with a five-membered ring containing one nitrogen atom in the ring}
- C08G 61/125 {with a five-membered ring containing one oxygen atom in the ring}
- C08G 61/126 {with a five-membered ring containing one sulfur atom in the ring}
- C08G 61/127 . . {derived from carbon dioxide, carbonyl halide, carboxylic acids or their derivatives}
- C08G 61/128 . . {derived from other compounds}

C08G 63/00 **Macromolecular compounds obtained by reactions forming a carboxylic ester link in the main chain of the macromolecule** ([polyester-amides](#) [C08G 69/44](#); [polyester-imides](#) [C08G 73/16](#))

NOTE

Compounds characterised by the chemical constitution of the polyesters are classified in the groups for the type of polyester compound. Compounds characterised by the preparation process of the polyesters are classified in the groups for the process employed (groups [C08G 63/78](#) to [C08G 63/87](#)). Compounds characterised both by the chemical constitution and by the preparation process are classified according to each of these aspects.

- C08G 63/005 . {Polyesters prepared from ketenes}
- C08G 63/02 . Polyesters derived from hydroxycarboxylic acids or from polycarboxylic acids and polyhydroxy compounds
- C08G 63/06 . . derived from hydroxycarboxylic acids
- C08G 63/065 . . . {the hydroxy and carboxylic ester groups being bound to aromatic rings}

C08G 63/08	...	Lactones or lactides
C08G 63/12	..	derived from polycarboxylic acids and polyhydroxy compounds
C08G 63/123	...	the acids or hydroxy compounds containing carbocyclic rings
C08G 63/127	....	Acids containing aromatic rings
C08G 63/13	.....	containing two or more aromatic rings
C08G 63/133	....	Hydroxy compounds containing aromatic rings
C08G 63/137	....	Acids or hydroxy compounds containing cycloaliphatic rings
C08G 63/16	...	Dicarboxylic acids and dihydroxy compounds
C08G 63/18	....	the acids or hydroxy compounds containing carbocyclic rings
C08G 63/181	.....	Acids containing aromatic rings
C08G 63/183	.....	Terephthalic acids
C08G 63/185	.....	containing two or more aromatic rings
C08G 63/187	.....	containing condensed aromatic rings
C08G 63/189	.....	containing a naphthalene ring
C08G 63/19	....	Hydroxy compounds containing aromatic rings
C08G 63/191	.....	Hydroquinones
C08G 63/193	.....	containing two or more aromatic rings
C08G 63/195	.....	Bisphenol A
C08G 63/197	.....	containing condensed aromatic rings
C08G 63/199	....	Acids or hydroxy compounds containing cycloaliphatic rings
C08G 63/20	....	Polyesters having been prepared in the presence of compounds having one reactive group or more than two reactive groups
C08G 63/21	.....	in the presence of unsaturated monocarboxylic acids or unsaturated monohydric alcohols or reactive derivatives thereof
C08G 63/40	...	Polyesters derived from ester-forming derivatives of polycarboxylic acids or of polyhydroxy compounds, other than from esters thereof
C08G 63/42	....	Cyclic ethers (C08G 59/00 takes precedence); Cyclic carbonates; Cyclic sulfites; Cyclic orthoesters
C08G 63/44	....	Polyamides; Polynitriles
C08G 63/46	...	Polyesters chemically modified by esterification (C08G 63/20 takes precedence ; by after-treatment C08G 63/91)
C08G 63/47	....	by unsaturated monocarboxylic acids or unsaturated monohydric alcohols or reactive derivatives thereof
C08G 63/48	....	by unsaturated higher fatty oils or their acids; by resin acids
C08G 63/50	....	by monohydric alcohols
C08G 63/52	...	Polycarboxylic acids or polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation
C08G 63/54	....	the acids or hydroxy compounds containing carbocyclic rings
C08G 63/547	.....	Hydroxy compounds containing aromatic rings
C08G 63/553	.....	Acids or hydroxy compounds containing cycloaliphatic rings, e.g. Diels-Alder adducts

- C08G 63/56 Polyesters derived from ester-forming derivatives of polycarboxylic acids or of polyhydroxy compounds other than from esters thereof
- C08G 63/58 Cyclic ethers ([C08G 59/00 takes precedence](#)); Cyclic carbonates; Cyclic sulfites; {Cyclic orthoesters}
- C08G 63/60 . . derived from the reaction of a mixture of hydroxy carboxylic acids, polycarboxylic acids and polyhydroxy compounds
- C08G 63/605 . . . {the hydroxy and carboxylic groups being bound to aromatic rings}
- C08G 63/64 . Polyesters containing both carboxylic ester groups and carbonate groups
- C08G 63/66 . Polyesters containing oxygen in the form of ether groups ([C08G 63/42](#), [C08G 63/58 take precedence](#))
- C08G 63/664 . . derived from hydroxy carboxylic acids
- C08G 63/668 . . derived from polycarboxylic acids and polyhydroxy compounds
- C08G 63/672 . . . Dicarboxylic acids and dihydroxy compounds
- C08G 63/676 . . . in which at least one of the two components contains aliphatic unsaturation
- C08G 63/68 . Polyesters containing atoms other than carbon, hydrogen and oxygen ([C08G 63/64 takes precedence](#))
- C08G 63/681 . . {containing elements not provided for by groups [C08G 63/682](#) to [C08G 63/698](#)}
- C08G 63/682 . . containing halogens
- C08G 63/6822 . . . {derived from hydroxy carboxylic acids}
- C08G 63/6824 . . . {derived from polycarboxylic acids and polyhydroxy compounds}
- C08G 63/6826 {Dicarboxylic acids and dihydroxy compounds}
- C08G 63/6828 {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- C08G 63/685 . . containing nitrogen
- C08G 63/6852 . . . {derived from hydroxy carboxylic acids}
- C08G 63/6854 . . . {derived from polycarboxylic acids and polyhydroxy compounds}
- C08G 63/6856 {Dicarboxylic acids and dihydroxy compounds}
- C08G 63/6858 {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- C08G 63/688 . . containing sulfur
- C08G 63/6882 . . . {derived from hydroxy carboxylic acids}
- C08G 63/6884 . . . {derived from polycarboxylic acids and polyhydroxy compounds}
- C08G 63/6886 {Dicarboxylic acids and dihydroxy compounds}
- C08G 63/6888 {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- C08G 63/692 . . containing phosphorus
- C08G 63/6922 . . . {derived from hydroxy carboxylic acids}
- C08G 63/6924 . . . {derived from polycarboxylic acids and polyhydroxy compounds}
- C08G 63/6926 {Dicarboxylic acids and dihydroxy compounds}
- C08G 63/6928 {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- C08G 63/695 . . containing silicon

- C08G 63/6952 . . . {derived from hydroxycarboxylic acids}
- C08G 63/6954 . . . {derived from polycarboxylic acids and polyhydroxy compounds}
- C08G 63/6956 {Dicarboxylic acids and dihydroxy compounds}
- C08G 63/6958 {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- C08G 63/698 . . containing boron
- C08G 63/6982 . . . {derived from hydroxy carboxylic acids}
- C08G 63/6984 . . . {derived from polycarboxylic acids and polyhydroxy compounds}
- C08G 63/6986 {Dicarboxylic acids and dihydroxy compounds}
- C08G 63/6988 {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}
- C08G 63/78 . Preparation processes
- C08G 63/785 . . {characterised by the apparatus used}
- C08G 63/79 . . Interfacial processes, i.e. processes involving a reaction at the interface of two non-miscible liquids
- C08G 63/80 . . Solid-state polycondensation
- C08G 63/81 . . using solvents ([C08G 63/79 takes precedence](#))
- C08G 63/82 . . characterised by the catalyst used
- C08G 63/823 . . . {for the preparation of polylactones or polylactides}
- C08G 63/826 . . . {Metals not provided for in groups [C08G 63/83](#) to [C08G 63/86](#) ([C08G 63/823 takes precedence](#))}
- C08G 63/83 . . . Alkali metals, alkaline earth metals, beryllium, magnesium, copper, silver, gold, zinc, cadmium, mercury, manganese, or compounds thereof {([C08G 63/823 takes precedence](#))}
- C08G 63/84 . . . Boron, aluminium, gallium, indium, thallium, rare-earth metals, or compounds thereof {([C08G 63/823 takes precedence](#))}
- C08G 63/85 . . . Germanium, tin, lead, arsenic, antimony, bismuth, titanium, zirconium, hafnium, vanadium, niobium, tantalum, or compounds thereof {([C08G 63/823 takes precedence](#))}
- C08G 63/86 Germanium, antimony, or compounds thereof
- C08G 63/863 {Germanium or compounds thereof}
- C08G 63/866 {Antimony or compounds thereof}
- C08G 63/87 . . . Non-metals or inter-compounds thereof ([boron C08G 63/84](#))
- C08G 63/88 . Post-polymerisation treatment
- C08G 63/89 . . Recovery of the polymer
- C08G 63/90 . . Purification; Drying
- C08G 63/91 . Polymers modified by chemical after-treatment
- C08G 63/912 . . {derived from hydroxycarboxylic acids}
- C08G 63/914 . . {derived from polycarboxylic acids and polyhydroxy compounds}
- C08G 63/916 . . . {Dicarboxylic acids and dihydroxy compounds}
- C08G 63/918 . . . {Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation}

C08G 64/00

Macromolecular compounds obtained by reactions forming a carbonic ester link in the main chain of the macromolecule ([polycarbonate-amides C08G 69/44](#); [polycarbonate-imides C08G 73/16](#))

NOTE

Polymers containing both carboxylic ester groups and carbonate groups are always classified in group [C08G 63/64](#), even when the carbonate groups are present in excess.

- C08G 64/02 . Aliphatic polycarbonates
- C08G 64/0208 .. {saturated}
- C08G 64/0216 ... {containing a chain-terminating or -crosslinking agent}
- C08G 64/0225 ... {containing atoms other than carbon, hydrogen or oxygen}
- C08G 64/0233 {containing halogens}
- C08G 64/0241 {containing nitrogen}
- C08G 64/025 {containing sulfur}
- C08G 64/0258 {containing phosphorus}
- C08G 64/0266 {containing silicon}
- C08G 64/0275 {containing boron}
- C08G 64/0283 {containing other elements}
- C08G 64/0291 .. {unsaturated}
- C08G 64/04 . Aromatic polycarbonates
- C08G 64/045 .. {containing aliphatic unsaturation}
- C08G 64/06 .. not containing aliphatic unsaturation
- C08G 64/08 ... containing atoms other than carbon, hydrogen or oxygen
- C08G 64/081 {containing sulfur}
- C08G 64/083 {containing phosphorus}
- C08G 64/085 {containing silicon}
- C08G 64/086 {containing boron}
- C08G 64/088 {containing other elements}
- C08G 64/10 containing halogens
- C08G 64/12 containing nitrogen
- C08G 64/14 ... containing a chain-terminating or -crosslinking agent
- C08G 64/16 . Aliphatic-aromatic or araliphatic polycarbonates
- C08G 64/1608 .. {saturated}
- C08G 64/1616 ... {containing a chain-terminating or -crosslinking agent}
- C08G 64/1625 ... {containing atoms other than carbon, hydrogen or oxygen}
- C08G 64/1633 {containing halogens}
- C08G 64/1641 {containing nitrogen}
- C08G 64/165 {containing sulfur}
- C08G 64/1658 {containing phosphorus}

C08G 64/1666	.... {containing silicon}
C08G 64/1675	.... {containing boron}
C08G 64/1683	.... {containing other elements}
C08G 64/1691	.. {unsaturated}
C08G 64/18	. Block or graft polymers
C08G 64/183	.. {containing polyether sequences}
C08G 64/186	.. {containing polysiloxane sequences}
C08G 64/20	. General preparatory processes
C08G 64/205	.. {characterised by the apparatus used}
C08G 64/22	.. using carbonyl halides
C08G 64/223	... {and cyclic ethers}
C08G 64/226	... {and alcohols}
C08G 64/24	... and phenols
C08G 64/26	.. using halocarbonates
C08G 64/263	... {and cyclic ethers}
C08G 64/266	... {and alcohols}
C08G 64/28	... and phenols
C08G 64/30	.. using carbonates
C08G 64/302	... {and cyclic ethers}
C08G 64/305	... {and alcohols}
C08G 64/307	... {and phenols}
C08G 64/32	.. using carbon dioxide
C08G 64/323	... {and alcohols}
C08G 64/326	... {and phenols}
C08G 64/34	... and cyclic ethers
C08G 64/36	.. using carbon monoxide
C08G 64/38	.. using other monomers
C08G 64/40	. Post-polymerisation treatment
C08G 64/403	.. {Recovery of the polymer}
C08G 64/406	.. {Purifying; Drying}
C08G 64/42	. Chemical after-treatment

C08G 65/00**Macromolecular compounds obtained by reactions forming an ether link in the main chain of the macromolecule**

C08G 65/002	. {from unsaturated compounds (unsaturated oxiranes C08G 65/14)}
C08G 65/005	.. {containing halogens}
C08G 65/007	... {containing fluorine}
C08G 65/02	. form cyclic ethers by opening of the heterocyclic ring
C08G 65/04	.. from cyclic ethers only
C08G 65/06	... Cyclic ethers having no atoms other than carbon and hydrogen outside the ring
C08G 65/08	.... Saturated oxiranes

C08G 65/10	.....	characterised by the catalysts used
C08G 65/105	.....	{Onium compounds}
C08G 65/12	.....	containing organo-metallic compounds or metal hydrides
C08G 65/14	....	Unsaturated oxiranes
C08G 65/16	....	Cyclic ethers having four or more ring atom
C08G 65/18	.....	Oxetanes
C08G 65/20	.....	Tetrahydrofuran
C08G 65/22	...	Cyclic ethers having at least one atom other than carbon and hydrogen outside the ring
C08G 65/223	....	{containing halogens (epihalohydrins C08G 65/24)}
C08G 65/226	.....	{containing fluorine}
C08G 65/24	....	Epihalohydrins
C08G 65/26	..	from cyclic ethers and other compounds
C08G 65/2603	...	{the other compounds containing oxygen}
C08G 65/2606	....	{containing hydroxyl groups}
C08G 65/2609	.....	{containing aliphatic hydroxyl groups}
C08G 65/2612	.....	{containing aromatic or arylaliphatic hydroxyl groups}
C08G 65/2615	....	{the other compounds containing carboxylic acid, ester or anhydride groups}
C08G 65/2618	...	{the other compounds containing nitrogen}
C08G 65/2621	....	{containing amine groups}
C08G 65/2624	.....	{containing aliphatic amine groups}
C08G 65/2627	.....	{containing aromatic or arylaliphatic amine groups}
C08G 65/263	.....	{containing heterocyclic amine groups}
C08G 65/2633	....	{the other compounds containing amide groups}
C08G 65/2636	...	{the other compounds containing sulfur}
C08G 65/2639	...	{the other compounds containing elements other than oxygen, nitrogen or sulfur}
C08G 65/2642	...	{characterised by the catalyst used}

NOTE

In this group classification is made according to the metal in the compounds, if any

In this group boron is considered a metal and magnesium as an alkaline earth metal

C08G 65/2645	....	{Metals or compounds thereof, e.g. salts}
C08G 65/2648	.....	{Alkali metals or compounds thereof}
C08G 65/2651	.....	{Alkaline earth metals or compounds thereof}
C08G 65/2654	.....	{Aluminium or boron; Compounds thereof}
C08G 65/2657	.....	{Aluminosilicates; Clays; Zeolites}

C08G 65/266	.....	{Metallic elements not covered by group C08G 65/2648 to C08G 65/2645 , or compounds thereof}
C08G 65/2663	.....	{Metal cyanide catalysts, i.e. DMC`s}
C08G 65/2666	.....	{Hetero polyacids}
C08G 65/2669	....	{Non-metals or compounds thereof (boron C08G 65/2654)}
C08G 65/2672	.....	{Nitrogen or compounds thereof}
C08G 65/2675	.....	{Phosphorus or compounds thereof}
C08G 65/2678	.....	{Sulfur or compounds thereof}
C08G 65/2681	.....	{Silicon or compounds thereof (silicates C08G 65/2657)}
C08G 65/2684	.....	{Halogens or compounds thereof}
C08G 65/2687	.....	{Elements not covered by groups C08G 65/2672 to C08G 65/2684 or compounds thereof}
C08G 65/269	....	{Mixed catalyst systems, i.e. containing more than one reactive component or catalysts formed in-situ}
C08G 65/2693	....	{Supported catalysts}
C08G 65/2696	...	{characterised by the process or apparatus used}
C08G 65/30	..	Post-polymerisation treatment, e.g. recovery, purification, drying
C08G 65/32	..	Polymers modified by chemical after-treatment
C08G 65/321	...	with inorganic compounds
C08G 65/322	....	containing hydrogen
C08G 65/323	....	containing halogen
C08G 65/3233	.....	{Molecular halogen}
C08G 65/3236	.....	{Fluorine}
C08G 65/324	....	containing oxygen
C08G 65/3245	.....	{Carbondioxide}
C08G 65/325	....	containing nitrogen
C08G 65/3255	.....	{Ammonia}
C08G 65/326	....	containing sulfur
C08G 65/3265	.....	{Sulfurdioxide}
C08G 65/327	....	containing phosphorus
C08G 65/328	....	containing other elements
C08G 65/329	...	with organic compounds
C08G 65/331	....	containing oxygen {(cyclic ether compounds C08G 65/26)}
C08G 65/3311	.....	{containing a hydroxy group}
C08G 65/3312	.....	{acyclic}
C08G 65/3314	.....	{cyclic}
C08G 65/3315	.....	{aromatic}
C08G 65/3317	.....	{phenolic}
C08G 65/3318	.....	{heterocyclic}
C08G 65/332	.....	containing carboxyl groups, or halides, or esters thereof
C08G 65/3322	.....	{acyclic}

C08G 65/3324	.....	{cyclic}
C08G 65/3326	.....	{aromatic}
C08G 65/3328	.....	{heterocyclic}
C08G 65/333	....	containing nitrogen
C08G 65/33303	.....	{containing amino group}
C08G 65/33306	.....	{acyclic}
C08G 65/3331	.....	{cyclic}
C08G 65/33313	.....	{aromatic}
C08G 65/33317	.....	{heterocyclic}
C08G 65/3332	.....	{containing carboxamide group}
C08G 65/33324	.....	{acyclic}
C08G 65/33327	.....	{cyclic}
C08G 65/33331	.....	{containing imide group}
C08G 65/33334	.....	{acyclic}
C08G 65/33337	.....	{cyclic}
C08G 65/33341	.....	{aromatic}
C08G 65/33344	.....	{containing carbamate group}
C08G 65/33348	.....	{containing isocyanate group}
C08G 65/33351	.....	{acyclic}
C08G 65/33355	.....	{cyclic}
C08G 65/33358	.....	{aromatic}
C08G 65/33362	.....	{heterocyclic}
C08G 65/33365	.....	{containing cyano group}
C08G 65/33368	.....	{acyclic}
C08G 65/33372	.....	{acrylonitrile}
C08G 65/33375	.....	{cyclic}
C08G 65/33379	.....	{containing nitro group}
C08G 65/33382	.....	{acyclic}
C08G 65/33386	.....	{cyclic}
C08G 65/33389	.....	{aromatic}
C08G 65/33393	.....	{heterocyclic}
C08G 65/33396	.....	{having oxygen in addition to nitrogen}
C08G 65/334	....	containing sulfur
C08G 65/3342	.....	{having sulfur bound to carbon and hydrogen}
C08G 65/3344	.....	{containing oxygen in addition to sulfur}
C08G 65/3346	.....	{having sulfur bound to carbon and oxygen}
C08G 65/3348	.....	{containing nitrogen in addition to sulfur}
C08G 65/335	....	containing phosphorus
C08G 65/3351	.....	{having phosphorus bound to carbon and hydrogen}
C08G 65/3353	.....	{containing oxygen in addition to phosphorus}

C08G 65/3355	.....	{having phosphorus bound to carbon and oxygen}
C08G 65/3356	.....	{having nitrogen in addition to phosphorus}
C08G 65/3358	.....	{having sulfur in addition to phosphorus}
C08G 65/336	....	containing silicon
C08G 65/337	....	containing other elements (organic compounds containing halogens only as halides of a carboxyl group C08G 65/332)
C08G 65/338	...	with inorganic and organic compounds
C08G 65/34	.	from hydroxy compounds or their metallic derivatives {(C08G 65/26 takes precedence)}
C08G 65/36	..	Furfuryl alcohol
C08G 65/38	..	derived from phenols
C08G 65/40	...	from phenols (I) and other compounds (II), e.g. OH-Ar-OH + X-Ar-X, where X is halogen atom, i.e. leaving group
C08G 65/4006	....	{(I) or (II) containing elements other than carbon, oxygen, hydrogen or halogen as leaving group (X)}
C08G 65/4012	....	{Other compound (II) containing a ketone group, e.g. X-Ar-C(=O)-Ar-X for polyetherketones}
C08G 65/4018	.....	{(I) or (II) containing halogens other than as leaving group (X)}
C08G 65/4025	.....	{(I) or (II) containing fluorine other than as leaving group (X)}
C08G 65/4031	.....	{(I) or (II) containing nitrogen}
C08G 65/4037	.....	{in ring structure, e.g. pyridine group}
C08G 65/4043	.....	{(I) or (II) containing oxygen other than as phenol or carbonyl group}
C08G 65/405	.....	{in ring structure, e.g. phenolphthalein}
C08G 65/4056	.....	{(I) or (II) containing sulfur (as the sulfone group C08G 75/23)}
C08G 65/4062	.....	{in ring structure}
C08G 65/4068	.....	{(I) or (II) containing elements not covered by groups C08G 65/4018 to C08G 65/4056 }
C08G 65/4075	....	{from self-polymerisable monomers, e.g. OH-Ar-X}
C08G 65/4081	....	{forming cyclic polymers or oligomers}
C08G 65/4087	....	{characterised by the catalyst used}
C08G 65/4093	....	{characterised by the process or apparatus used}
C08G 65/42	....	Phenols and polyhydroxy ethers
C08G 65/44	...	by oxidation of phenols
C08G 65/46	..	Post-polymerisation treatment, e.g. recovery, purification, drying
C08G 65/48	..	Polymers modified by chemical after-treatment
C08G 65/485	...	{Polyphenylene oxides}
C08G 67/00		Macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing oxygen or oxygen and carbon, not provided for in groups C08G 2/00 to C08G 65/00
C08G 67/02	.	Copolymers of carbon monoxide and aliphatic unsaturated compounds
C08G 67/04	.	Polyanhydrides

- C08G 69/00** **Macromolecular compounds obtained by reactions forming a carboxylic amide link in the main chain of the macromolecule** (products obtained from isocyanates or isothiocyanates [C08G 18/00](#); polyamide-imides [C08G 73/14](#))
- [C08G 69/02](#) . Polyamides derived from amino-carboxylic acids or from polyamines and polycarboxylic acids
- [C08G 69/04](#) .. Preparatory processes
- [C08G 69/06](#) ... Solid state polycondensation
- [C08G 69/08](#) .. derived from amino-carboxylic acids
- [C08G 69/10](#) ... Alpha-amino-carboxylic acids {(polysuccinimides [C08G 73/1092](#))}
- [C08G 69/12](#) ... with both amino and carboxylic groups aromatically bound
- [C08G 69/14](#) ... Lactams
- [C08G 69/16](#) Preparatory processes
- [C08G 69/18](#) Anionic polymerisation
- [C08G 69/20](#) characterised by the catalysts used
- [C08G 69/22](#) Beta-lactams
- [C08G 69/24](#) Pyrrolidones or piperidones
- [C08G 69/26](#) .. derived from polyamines and polycarboxylic acids
- [C08G 69/265](#) ... {from at least two different diamines or at least two different dicarboxylic acids}
- [C08G 69/28](#) ... Preparatory processes
- [C08G 69/30](#) Solid state polycondensation
- [C08G 69/32](#) ... from aromatic diamines and aromatic dicarboxylic acids with both amino and carboxylic groups aromatically bound
- [C08G 69/34](#) ... using polymerised unsaturated fatty acids
- [C08G 69/36](#) .. derived from amino acids, polyamines and polycarboxylic acids
- [C08G 69/38](#) . Polyamides prepared from aldehydes and polynitriles
- [C08G 69/40](#) . Polyamides containing oxygen in the form of ether groups ([C08G 69/12](#), [C08G 69/32](#) take precedence)
- [C08G 69/42](#) . Polyamides containing atoms other than carbon, hydrogen, oxygen, and nitrogen ([C08G 69/12](#), [C08G 69/32](#) take precedence)
- [C08G 69/44](#) . Polyester-amides
- [C08G 69/46](#) . Post-polymerisation treatment
- [C08G 69/48](#) . Polymers modified by chemical after-treatment
- [C08G 69/50](#) .. with aldehydes
- C08G 71/00** **Macromolecular compounds obtained by reactions forming a ureide or urethane link, otherwise, than from isocyanate radicals in the main chain of the macromolecule**
- [C08G 71/02](#) . Polyureas
- [C08G 71/04](#) . Polyurethanes

C08G 73/00

Macromolecular compounds obtained by reactions forming a linkage containing nitrogen with or without oxygen or carbon in the main chain of the macromolecule, not provided for in groups [C08G 12/00](#) to [C08G 71/00](#) {(polycarbodiimides prepared from isocyanates [C08G 18/025](#), [C08G 18/797](#))}

- C08G 73/02 . Polyamines
- C08G 73/0206 .. {Polyalkylene(poly)amines}
- C08G 73/0213 ... {Preparatory process}
- C08G 73/022 {from polyamines and epihalohydrins}
- C08G 73/0226 {Quaternisation of polyalkylene(poly)amines}
- C08G 73/0233 .. {Polyamines derived from (poly)oxazolines, (poly)oxazines or having pendant acyl groups}
- C08G 73/024 .. {Polyamines containing oxygen in the form of ether bonds in the main chain}
- C08G 73/0246 .. {Polyamines containing other atoms than carbon, hydrogen, nitrogen or oxygen in the main chain}
- C08G 73/0253 ... {Polyamines containing sulfur in the main chain}
- C08G 73/026 .. {Wholly aromatic polyamines}
- C08G 73/0266 ... {Polyanilines or derivatives thereof}
- C08G 73/0273 .. {Polyamines containing heterocyclic moieties in the main chain}
- C08G 73/028 .. {Polyamidoamines}
- C08G 73/0286 ... {Preparatory process from polyamidoamines and epihalohydrins}
- C08G 73/0293 ... {Quaternisation of polyamidoamines}
- C08G 73/06 . Polycondensates having nitrogen-containing heterocyclic rings in the main chain of the macromolecule

NOTE

In this subgroup, "spiro" and "bridged" compounds are considered as condensed

Heterocyclic rings containing both nitrogen and sulfur are classified in subgroups [C08G 75/00](#) to [C08G 75/32](#)

- C08G 73/0605 .. {Polycondensates containing five-membered rings, not condensed with other rings, with nitrogen atoms as the only ring hetero atoms}
- C08G 73/0611 ... {with only one nitrogen atom in the ring, e.g. polypyrroles (polysuccinimides [C08G 73/1092](#))}
- C08G 73/0616 ... {with only two nitrogen atoms in the ring}
- C08G 73/0622 .. {Polycondensates containing six-membered rings, not condensed with other rings, with nitrogen atoms as the only ring hetero atoms}
- C08G 73/0627 ... {with only one nitrogen atom in the ring}
- C08G 73/0633 ... {with only two nitrogen atoms in the ring}
- C08G 73/0638 ... {with at least three nitrogen atoms in the ring}
- C08G 73/0644 {Poly(1,3,5)triazines}
- C08G 73/065 {Preparatory processes}
- C08G 73/0655 {from polycyanurates}

C08G 73/0661	.....	{characterised by the catalyst used}
C08G 73/0666	..	{Polycondensates containing five-membered rings, condensed with other rings, with nitrogen atoms as the only ring hetero atoms}
C08G 73/0672	...	{with only one nitrogen atom in the ring}
C08G 73/0677	...	{with only two nitrogen atoms in the ring}
C08G 73/0683	..	{Polycondensates containing six-membered rings, condensed with other rings, with nitrogen atoms as the only ring hetero atoms}
C08G 73/0688	...	{with only one nitrogen atom in the ring, e.g. polyquinolines}
C08G 73/0694	...	{with only two nitrogen atoms in the ring, e.g. polyquinoxalines}
C08G 73/08	..	Polyhydrazides; Polytriazoles; Polyamino-triazoles; Polyoxadiazoles
C08G 73/10	..	Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors
C08G 73/1003	...	{Preparatory processes}
C08G 73/1007	....	{from tetracarboxylic acids or derivatives and diamines}
C08G 73/101	.....	{containing chain terminating or branching agents}
C08G 73/1014	.....	{in the form of (mono)anhydrid}
C08G 73/1017	.....	{in the form of (mono)amine}
C08G 73/1021	.....	{characterised by the catalyst used}
C08G 73/1025	.....	{polymerised by radiations}
C08G 73/1028	.....	{characterised by the process itself, e.g. steps, continuous}
C08G 73/1032	.....	{characterised by the solvent(s) used}
C08G 73/1035	....	{from tetracarboxylic acids or derivatives and diisocyanates}
C08G 73/1039	...	{comprising halogen-containing substituents}
C08G 73/1042	...	{Copolyimides derived from at least two different tetracarboxylic compounds or two different diamino compounds}
C08G 73/1046	...	{Polyimides containing oxygen in the form of ether bonds in the main chain}
C08G 73/105	....	{with oxygen only in the diamino moiety}
C08G 73/1053	....	{with oxygen only in the tetracarboxylic moiety}
C08G 73/1057	...	{Polyimides containing other atoms than carbon, hydrogen, nitrogen or oxygen in the main chain}
C08G 73/106	....	{containing silicon}
C08G 73/1064	....	{containing sulfur}
C08G 73/1067	...	{Wholly aromatic polyimides, i.e. having both tetracarboxylic and diamino moieties aromatically bound}
C08G 73/1071	....	{Wholly aromatic polyimides containing oxygen in the form of ether bonds in the main chain}
C08G 73/1075	...	{Partially aromatic polyimides}
C08G 73/1078	....	{wholly aromatic in the diamino moiety}
C08G 73/1082	....	{wholly aromatic in the tetracarboxylic moiety}
C08G 73/1085	...	{Polyimides with diamino moieties or tetracarboxylic segments containing heterocyclic moieties}
C08G 73/1089	...	{Polyisoimides}

C08G 73/1092	...	{Polysuccinimides}
C08G 73/1096	...	{containing azo linkage in the main chain}
C08G 73/12	...	Unsaturated polyimide precursors
C08G 73/121	....	{Preparatory processes from unsaturated precursors and polyamines}
C08G 73/122	.....	{containing chain terminating or branching agents}
C08G 73/123	....	{the unsaturated precursors comprising halogen-containing substituents}
C08G 73/124	....	{the unsaturated precursors containing oxygen in the form of ether bonds in the main chain}
C08G 73/125	....	{the unsaturated precursors containing atoms other than carbon, hydrogen, oxygen or nitrogen in the main chain}
C08G 73/126	....	{the unsaturated precursors being wholly aromatic}
C08G 73/127	.....	{containing oxygen in the form of ether bonds in the main chain}
C08G 73/128	....	{the unsaturated precursors containing heterocyclic moieties in the main chain}
C08G 73/14	...	Polyamide-imides
C08G 73/16	...	Polyester-imides
C08G 73/18	..	Polybenzimidazoles
C08G 73/20	..	Pyrrones
C08G 73/22	..	Polybenzoxazoles
C08G 73/24	.	Copolymers of a fluoronitroso organic compound and another fluoro organic compound, e.g. nitroso rubbers
C08G 73/26	..	of trifluoronitrosomethane with a fluoro-olefin
C08G 75/00		Macromolecular compounds obtained by reactions forming a linkage containing sulfur with or without nitrogen, oxygen, or carbon in the main chain of the macromolecule
C08G 75/02	.	Polythioethers
C08G 75/0204	..	{Polyarylenethioethers}
C08G 75/0209	...	{derived from monomer containing one aromatic ring}
C08G 75/0213	....	{containing other elements than carbon, hydrogen or sulfur}
C08G 75/0218	.....	{containing oxygen}
C08G 75/0222	.....	{containing nitrogen}
C08G 75/0227	...	{derived from monomer containing two or more aromatic rings}
C08G 75/0231	...	{containing chain terminating or branching agents}
C08G 75/0236	...	{containing atoms other than carbon or sulfur on the main chain}
C08G 75/024	....	{containing carbonyl groups}
C08G 75/0245	...	{Block and graft polymers}
C08G 75/025	...	{Preparatory processes}
C08G 75/0254	....	{using metalsulfide}
C08G 75/0259	....	{using metalhydrogensulfide}
C08G 75/0263	....	{using elemental sulfur}
C08G 75/0268	....	{using disulfide}

- C08G 75/0272 {using other sulfur sources}
- C08G 75/0277 . . . {Post-polymerisation treatment}
- C08G 75/0281 {Recovery and purification}
- C08G 75/0286 . . . {Chemical after-treatment}
- C08G 75/029 {modified with organic compounds}
- C08G 75/0295 {modified with inorganic compounds}
- C08G 75/04 . . from mercapto compounds or metallic derivatives thereof
- C08G 75/045 . . . {from mercapto compounds and unsaturated compounds}
- C08G 75/06 . . from cyclic thioethers
- C08G 75/08 . . . from thiiranes
- C08G 75/10 . . from sulfur or sulfur-containing compounds and aldehydes or ketones
- C08G 75/12 . Polythioether-ethers
- C08G 75/14 . Polysulfides
- C08G 75/16 . . by polycondensation of organic compounds with inorganic polysulfides
- C08G 75/18 . Polysulfoxides
- C08G 75/20 . Polysulfones
- C08G 75/205 . . {Copolymers of sulfur dioxide with unsaturated organic compounds ([C08G 75/22](#) takes precedence)}
- C08G 75/22 . . Copolymers of sulfur dioxide with unsaturated aliphatic compounds
- C08G 75/23 . . Polyethersulfones
- C08G 75/24 . Polysulfonates
- C08G 75/26 . Polythioesters
- C08G 75/28 . Polythiocarbonates
- C08G 75/30 . Polysulfonamides; Polysulfonimides
- C08G 75/32 . Polythiazoles; Polythiadiazoles

C08G 77/00 **Macromolecular compounds obtained by reactions forming a linkage containing silicon with or without sulfur, nitrogen, oxygen or carbon in the main chain of the macromolecule**

WARNING

Groups [C08G 77/70](#) - [C08G 77/80](#) do not correspond to former or current IPC groups. Concordance CPC : IPC for these groups is as follows: -
[C08G 77/70](#): [C08G 77/04](#) - [C08G 77/80](#): [C08G 77/04](#)

- C08G 77/02 . Polysilicates
- C08G 77/04 . Polysiloxanes
- C08G 77/045 . . {containing less than 25 silicon atoms}
- C08G 77/06 . . Preparatory processes {([C08G 77/045](#) takes precedence)}
- C08G 77/08 . . . characterised by the catalysts used
- C08G 77/10 . . . Equilibration processes
- C08G 77/12 . . containing silicon bound to hydrogen {([C08G 77/045](#) takes precedence)}

- C08G 77/14 .. containing silicon bound to oxygen-containing groups {(C08G 77/045 takes precedence)}
- C08G 77/16 ... to hydroxyl groups
- C08G 77/18 ... to alkoxy or aryloxy groups
- C08G 77/20 .. containing silicon bound to unsaturated aliphatic groups {(C08G 77/045 takes precedence)}
- C08G 77/22 .. containing silicon bound to organic groups containing atoms other than carbon, hydrogen and oxygen {(C08G 77/045 takes precedence)}
- C08G 77/24 ... halogen-containing groups
- C08G 77/26 ... nitrogen-containing groups
- C08G 77/28 ... sulfur-containing groups
- C08G 77/30 ... phosphorus-containing groups
- C08G 77/32 .. Post-polymerisation treatment {(C08G 77/045 takes precedence) chemical after-treatment C08G 77/38)
- C08G 77/34 ... Purification
- C08G 77/36 ... Fractionation
- C08G 77/38 .. Polysiloxanes modified by chemical after-treatment {(C08G 77/045 takes precedence)}
- C08G 77/382 ... containing atoms other than carbon, hydrogen, oxygen or silicon
- C08G 77/385 containing halogens
- C08G 77/388 containing nitrogen
- C08G 77/392 containing sulfur
- C08G 77/395 containing phosphorus
- C08G 77/398 containing boron or metal atoms
- C08G 77/42 . Block-or graft-polymers containing polysiloxane sequences (polymerising aliphatic unsaturated monomers on to a polysiloxane C08F 283/12)
- C08G 77/44 .. containing only polysiloxane sequences
- C08G 77/442 .. containing vinyl polymer sequences
- C08G 77/445 .. containing polyester sequences
- C08G 77/448 ... containing polycarbonate sequences
- C08G 77/452 .. containing nitrogen-containing sequences
- C08G 77/455 ... containing polyamide, polyesteramide or polyimide sequences
- C08G 77/458 .. containing polyurethane sequences
- C08G 77/46 .. containing polyether sequences
- C08G 77/48 . in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms (C08G 77/42 takes precedence)
- C08G 77/485 .. {containing less than 25 silicon atoms}
- C08G 77/50 .. by carbon linkages {(C08G 77/485 takes precedence)}
- C08G 77/52 ... containing aromatic rings
- C08G 77/54 .. Nitrogen-containing linkages {(C08G 77/485 takes precedence)}
- C08G 77/56 .. Boron-containing linkages {(C08G 77/485 takes precedence)}
- C08G 77/58 .. Metal-containing linkages {(C08G 77/485 takes precedence)}

- C08G 77/60 . in which all the silicon atoms are connected by linkages other than oxygen atoms
- C08G 77/62 . . Nitrogen atoms
- C08G 77/70 . {Siloxanes defined by use of the MDTQ nomenclature}
- C08G 77/80 . {Siloxanes having aromatic substituents, e.g. phenyl side groups}

- C08G 79/00** **Macromolecular compounds obtained by reactions forming a linkage containing atoms other than silicon, sulfur, nitrogen, oxygen, and carbon {with or without the latter elements in the main chain of the macromolecule}**
- C08G 79/02 . a linkage containing phosphorus
- C08G 79/025 . . {Polyphosphazenes}
- C08G 79/04 . . Phosphorus linked to oxygen or to oxygen and carbon
- C08G 79/06 . . Phosphorus linked to carbon only
- C08G 79/08 . a linkage containing boron
- C08G 79/10 . a linkage containing aluminium
- C08G 79/12 . a linkage containing tin
- C08G 79/14 . a linkage containing two or more elements other than carbon, oxygen, nitrogen, sulfur and silicon

- C08G 81/00** **Macromolecular compounds obtained by interreacting polymers in the absence of monomers, e.g. block polymers (involving only carbon-to-carbon unsaturated bond reactions C08F 299/00; {polyester-amides C08G 69/44; polyester-imides C08G 73/16; polyamides-imides C08G 73/14; block- or graft polymers containing polysiloxane sequences C08G 77/42})**
- C08G 81/02 . at least one of the polymers being obtained by reactions involving only carbon-to-carbon unsaturated bonds
- C08G 81/021 . . {Block or graft polymers containing only sequences of polymers of C08C or C08F}
- C08G 81/022 . . . {containing sequences of polymers of conjugated dienes and of polymers of alkenyl aromatic compounds}
- C08G 81/024 . . {Block or graft polymers containing sequences of polymers of C08C or C08F and of polymers of C08G}
- C08G 81/025 . . . {containing polyether sequences}
- C08G 81/027 . . . {containing polyester or polycarbonate sequences}
- C08G 81/028 . . . {containing polyamide sequences}

- C08G 83/00** **Macromolecular compounds not provided for in groups C08G 2/00 to C08G 81/00**
- C08G 83/001 . {Macromolecular compounds containing organic and inorganic sequences, e.g. organic polymers grafted onto silica}
- C08G 83/002 . {Dendritic macromolecules}
- C08G 83/003 . . {Dendrimers}
- C08G 83/004 . . . {After treatment of dendrimers}
- C08G 83/005 . . {Hyperbranched macromolecules}
- C08G 83/006 . . . {After treatment of hyperbranched macromolecules}
- C08G 83/007 . {Polyrotaxanes; Polycatenanes}
- C08G 83/008 . {Supramolecular polymers}

C08G 85/00	General processes for preparing compounds provided for in this subclass
C08G 85/002	. {Post-polymerisation treatment}
C08G 85/004	. {Modification of polymers by chemical after-treatment}
C08G 85/006	. {Scale prevention in polymerisation reactors}
C08G 85/008	. {Cleaning reaction vessels using chemicals (mechanical methods B08B 9/08)}
C08G 2101/00	Foams
C08G 2101/0008	. flexible
C08G 2101/0016	. semi-rigid
C08G 2101/0025	. rigid
C08G 2101/0033	. having integral skins
C08G 2101/0041	. having specified density
C08G 2101/005	. . < 50 kg/m
C08G 2101/0058	. . > 50 and < 150 kg/m
C08G 2101/0066	. . > 150 Kg/m including micro-cellular foams
C08G 2101/0075	. prepared with an isocyanate index of 60 or lower
C08G 2101/0083	. prepared using water as the sole blowing agent
C08G 2101/0091	. Aerogels; Xerogels
C08G 2105/00	Oligomerisation
C08G 2105/02	. to isocyanurate groups
C08G 2105/06	. to carbodiimide or uretone-imine groups
C08G 2120/00	Compositions for reaction injection moulding processes
C08G 2125/00	Compositions for processes using internal mould release agents
C08G 2130/00	Compositions of compatibilising agents used in mixtures of high-molecular-weight compounds having active hydrogen with other compounds having active hydrogen
C08G 2140/00	Compositions for moulding powders
C08G 2150/00	Compositions for coatings (not used)
C08G 2150/20	. Compositions for powder coatings
C08G 2150/50	. Compositions for coatings applied by spraying at least two streams of reaction components
C08G 2150/60	. Compositions for foaming; Foamed or intumescent coatings
C08G 2150/90	. Compositions for anticorrosive coatings
C08G 2170/00	Compositions for adhesives (not used)
C08G 2170/20	. Compositions for hot melt adhesives
C08G 2170/40	. Compositions for pressure-sensitive adhesives

C08G 2170/60	. Compositions for foaming; Foamed or intumescent adhesives
C08G 2170/80	. Compositions for aqueous adhesives
C08G 2170/90	. Compositions for adhesives used in footwear
C08G 2190/00	Compositions for sealing or packing joints
C08G 2210/00	Compositions for preparing hydrogels
C08G 2220/00	Compositions for preparing gels other than hydrogels, aerogels and xerogels
C08G 2230/00	Compositions for preparing biodegradable polymers
C08G 2250/00	Compositions for preparing crystalline polymers
C08G 2261/00	Macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain of the macromolecule
C08G 2261/10	. Definition of the polymer structure
C08G 2261/11	.. Homopolymers
C08G 2261/12	.. Copolymers
C08G 2261/122	... statistical
C08G 2261/124	... alternating
C08G 2261/126	... block
C08G 2261/128	... graft
C08G 2261/13	.. Morphological aspects
C08G 2261/131	... dendritic
C08G 2261/132	... branched or hyperbranched
C08G 2261/133	... Rod-like building block
C08G 2261/1332	.... Non-ladder-type, e.g. polyphenylenes, PPVs or polythiophenes
C08G 2261/1334	.... Step-ladder-type, e.g. polyfluorenes or polycarbazoles
C08G 2261/1336	.... Ladder-type, e.g. ladder-poly-p-phenylenes
C08G 2261/134	... Rod and coil building blocks
C08G 2261/135	... Cross-linked structures
C08G 2261/136	... Comb-like structures
C08G 2261/14	.. Side-groups
C08G 2261/141	... Side-chains having aliphatic units
C08G 2261/1412	.... Saturated aliphatic units
C08G 2261/1414	.... Unsaturated aliphatic units
C08G 2261/142	... Side-chains containing oxygen
C08G 2261/1422	.... containing OH groups
C08G 2261/1424	.... containing ether groups, including alkoxy
C08G 2261/1426	.... containing carboxy groups (COOH) and/or -C(=O)O-moieties
C08G 2261/1428	.... containing acyl groups
C08G 2261/143	... Side-chains containing nitrogen

C08G 2261/1432	....	containing amide groups
C08G 2261/1434	....	containing triarylamine moieties
C08G 2261/144	...	Side-chains containing silicon
C08G 2261/145	...	Side-chains containing sulfur
C08G 2261/1452	....	containing sulfonyl or sulfonate-groups
C08G 2261/146	...	Side-chains containing halogens
C08G 2261/147	...	Side-chains with other heteroatoms in the side-chain
C08G 2261/148	...	Side-chains having aromatic units
C08G 2261/149	...	Side-chains having heteroaromatic units
C08G 2261/15	...	conjugated side-chains
C08G 2261/152	...	comprising metal complexes
C08G 2261/1522	....	of alkali metals or alkaline-earth metals
C08G 2261/1523	....	of rare earth metals, i.e. Sc, Y or lanthanides
C08G 2261/1524	....	of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta or W
C08G 2261/1526	....	of Os, Ir, Pt, Ru, Rh or Pd
C08G 2261/1528	....	of Al
C08G 2261/1529	....	of Fe, Co or Ni
C08G 2261/16	..	End groups
C08G 2261/162	...	comprising metal complexes
C08G 2261/1621	....	of alkali metals or alkaline-earth metals
C08G 2261/1622	....	of rare earth metals, i.e. Sc, Y or lanthanides
C08G 2261/1623	....	of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta or W
C08G 2261/1624	....	of Os, Ir, Pt, Ru, Rh or Pd
C08G 2261/1625	....	of Al
C08G 2261/1626	....	of Fe, Co or Ni
C08G 2261/164	...	comprising organic end groups
C08G 2261/1642	....	comprising reactive double bonds or triple bonds
C08G 2261/1644	....	comprising other functional groups, e.g. OH groups, NH groups, COOH groups or boronic acid
C08G 2261/1646	....	comprising aromatic or heteroaromatic end groups
C08G 2261/17	..	Dendritic core
C08G 2261/18	..	conjugated
C08G 2261/19	..	partially conjugated
C08G 2261/20	..	non-conjugated
C08G 2261/21	..	Stereochemical aspects
C08G 2261/212	...	Regioregularity
C08G 2261/214	...	Chirality
C08G 2261/216	...	Cis-trans isomerism
C08G 2261/22	..	Molecular weight
C08G 2261/222	...	monodisperse

C08G 2261/224	...	polydisperse
C08G 2261/226	...	Oligomers, i.e. up to 10 repeat units
C08G 2261/228	...	Polymers, i.e. more than 10 repeat units
C08G 2261/30	.	Monomer units or repeat units incorporating structural elements in the main chain
C08G 2261/31	..	incorporating aromatic structural elements in the main chain
C08G 2261/312	...	Non-condensed aromatic systems, e.g. benzene
C08G 2261/314	...	Condensed aromatic systems. e.g. perylene, anthracene or pyrene
C08G 2261/3142	....	fluorene-based, e.g. fluorene, indenofluorene, or spirobifluorene
C08G 2261/316	...	bridged by heteroatoms, e.g. N, P, Si or B
C08G 2261/3162	....	Arylamines
C08G 2261/32	..	incorporating heteroaromatic structural elements in the main chain
C08G 2261/322	...	non-condensed
C08G 2261/3221	....	containing one or more nitrogen atoms as the only heteroatom, e.g. pyrrole, pyridine or triazole
C08G 2261/3222	....	containing one or more oxygen atoms as the only heteroatom, e.g. furan
C08G 2261/3223	....	containing one or more sulfur atoms as the only heteroatom, e.g. thiophene
C08G 2261/3224	....	containing one or more Si atoms as the only heteroatom
C08G 2261/3225	....	containing one or more Se atoms as the only heteroatom
C08G 2261/3226	....	containing one or more Te atoms as the only heteroatom
C08G 2261/3227	....	containing only one kind of heteroatoms other than N,O, S, Si, Se, Te
C08G 2261/3228	....	containing nitrogen and oxygen as heteroatoms
C08G 2261/3229	....	containing nitrogen and sulfur as heteroatoms
C08G 2261/323	....	containing combinations of different heteroatoms other than nitrogen and oxygen or nitrogen and sulfur
C08G 2261/324	...	condensed
C08G 2261/3241	....	containing one or more nitrogen atoms as the only heteroatom, e.g. carbazole
C08G 2261/3242	....	containing one or more oxygen atoms as the only heteroatom, e.g. benzofuran
C08G 2261/3243	....	containing one or more sulfur atoms as the only heteroatom, e.g. benzothiophene
C08G 2261/3244	....	containing only one kind of heteroatoms other than N, O, S
C08G 2261/3245	....	containing nitrogen and oxygen as heteroatoms
C08G 2261/3246	....	containing nitrogen and sulfur as heteroatoms
C08G 2261/3247	....	containing combinations of different heteroatoms other than nitrogen and oxygen or nitrogen and sulfur
C08G 2261/33	..	incorporating non-aromatic structural elements in the main chain
C08G 2261/332	...	containing only carbon atoms
C08G 2261/3321	....	derived from cyclopentene
C08G 2261/3322	....	derived from cyclooctene
C08G 2261/3323	....	derived from other monocyclic systems
C08G 2261/3324	....	derived from norbornene

C08G 2261/3325	....	derived from other polycyclic systems
C08G 2261/3326	....	alkane-based
C08G 2261/3327	....	alkene-based
C08G 2261/3328	....	alkyne-based
C08G 2261/334	...	containing heteroatoms
C08G 2261/3342	....	derived from cycloolefins containing heteroatoms
C08G 2261/34	..	incorporating partially-aromatic structural elements in the main chain
C08G 2261/342	...	containing only carbon atoms
C08G 2261/3422	....	conjugated, e.g. PPV-type
C08G 2261/3424	....	non-conjugated, e.g. paracyclophanes or xylenes
C08G 2261/344	...	containing heteroatoms
C08G 2261/3442	....	Polyetherketones
C08G 2261/3444	....	Polyethersulfones
C08G 2261/35	..	Macromonomers i.e. comprising more than 10 repeat units
C08G 2261/352	...	containing only carbon atoms
C08G 2261/354	...	containing hetero atoms
C08G 2261/36	..	Oligomers, i.e. comprising up to 10 repeat units
C08G 2261/362	...	containing only carbon atoms
C08G 2261/364	...	containing hetero atoms
C08G 2261/37	..	Metal complexes
C08G 2261/371	...	of alkali metals and alkaline-earth metals
C08G 2261/372	...	of rare earth metals, i.e. Sc, Y, lanthanides
C08G 2261/373	...	of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta, W
C08G 2261/374	...	of Os, Ir, Pt, Ru, Rh, Pd
C08G 2261/375	...	of Al
C08G 2261/376	...	of Fe, Co, Ni
C08G 2261/40	.	Polymerisation processes
C08G 2261/41	..	Organometallic coupling reactions
C08G 2261/411	...	Suzuki reactions
C08G 2261/412	...	Yamamoto reactions
C08G 2261/413	...	Heck reactions
C08G 2261/414	...	Stille reactions
C08G 2261/415	...	Sonogashira / Hagihara reactions
C08G 2261/416	...	zinc-based, e.g. Rieke reactions
C08G 2261/417	...	magnesium-based, e.g. Grignard or McCullough reactions
C08G 2261/418	...	Ring opening metathesis polymerisation (ROMP)
C08G 2261/419	...	Acyclic diene metathesis (ADMET)
C08G 2261/42	..	Non-organometallic coupling reactions, e.g. Gilch-type or Wessling-Zimmermann type
C08G 2261/43	..	Chemical oxidative coupling reactions, e.g. with FeCl ₃

C08G 2261/44	..	Electrochemical polymerisation, i.e. oxidative or reductive coupling
C08G 2261/45	..	Friedel-Crafts-type
C08G 2261/46	..	Diels-Alder reactions
C08G 2261/50	.	Physical properties
C08G 2261/51	..	Charge transport
C08G 2261/512	...	Hole transport
C08G 2261/514	...	Electron transport
C08G 2261/516	...	ion-conductive
C08G 2261/52	..	Luminescence
C08G 2261/522	...	fluorescent
C08G 2261/5222	....	electrofluorescent
C08G 2261/524	...	phosphorescent
C08G 2261/5242	....	electrophosphorescent
C08G 2261/526	...	used as active layer in lasers
C08G 2261/53	..	liquid-crystalline
C08G 2261/54	..	electrochromatic
C08G 2261/55	..	thermoelectric
C08G 2261/56	..	thermochromic
C08G 2261/57	..	photorefractive, e.g. change of refractive index
C08G 2261/58	..	corrosion-inhibiting
C08G 2261/59	..	Stability
C08G 2261/592	...	against heat
C08G 2261/594	...	against light, i.e. electromagnetic radiation
C08G 2261/596	...	against oxidation
C08G 2261/598	...	Chemical stability
C08G 2261/60	..	Glass transition temperature
C08G 2261/61	..	Permeability
C08G 2261/612	...	for gases
C08G 2261/614	...	for liquids
C08G 2261/62	..	Mechanical aspects
C08G 2261/63	..	Viscosity
C08G 2261/64	..	Solubility
C08G 2261/65	..	Electrical insulator
C08G 2261/70	.	Post-treatment
C08G 2261/71	..	Purification
C08G 2261/712	...	Catalyst removal
C08G 2261/72	..	Derivatisation
C08G 2261/722	...	Sulfonation
C08G 2261/724	...	Hydrogenation
C08G 2261/726	...	Silylation

C08G 2261/728	...	Acylation
C08G 2261/73	..	Depolymerisation
C08G 2261/74	..	Further polymerisation of the obtained polymers, e.g. living polymerisation to obtain block-copolymers
C08G 2261/75	..	Reaction of polymer building blocks for the formation of block-copolymers
C08G 2261/76	..	crosslinking
C08G 2261/77	..	grafting
C08G 2261/78	..	Complexation
C08G 2261/79	..	doping
C08G 2261/792	...	with low-molecular weight dopants
C08G 2261/794	...	with polymeric dopants
C08G 2261/80	..	Functional group cleavage, e.g. removal of side-chains or protective groups
C08G 2261/90	.	Applications
C08G 2261/91	..	Photovoltaic applications
C08G 2261/92	..	TFT applications
C08G 2261/93	..	Applications in textiles, fabrics and yarns
C08G 2261/94	..	Applications in sensors, e.g. biosensors
C08G 2261/95	..	Use in organic luminescent diodes
C08G 2261/96	..	coating of particles
C08G 2261/962	...	coating of organic particles
C08G 2261/964	...	coating of inorganic particles
C08G 2270/00		Compositions for creating interpenetrating networks
C08G 2280/00		Compositions for creating shape memory
C08G 2290/00		Compositions for creating anti-fogging
C08G 2310/00		Agricultural use or equipment
C08G 2330/00		Thermal insulation material (not used)
C08G 2330/50	.	Evacuated open-celled polymer material
C08G 2340/00		Filter material
C08G 2350/00		Acoustic or vibration damping material
C08G 2380/00		Tyres
C08G 2390/00		Containers
C08G 2390/40	.	Inner coatings for containers
C08G 2410/00		Soles

C08G 2650/00**Macromolecular compounds obtained by reactions forming an ether link in the main chain of the macromolecule**

- C08G 2650/02 . . characterized by the type of post-polymerisation functionalisation
- C08G 2650/04 . . End-capping
- C08G 2650/06 . . Epoxy-capping
- C08G 2650/08 . . . Epoxy- capping used as a source of hydroxy groups
- C08G 2650/10 . . characterized by the catalyst used in the post-polymerisation functionalisation step
- C08G 2650/12 . . Depolymerisation e.g. to reform the monomer
- C08G 2650/14 . . De-esterification, e.g. of polythf-diesters
- C08G 2650/16 . . Photopolymerisation
- C08G 2650/18 . . Photodegradation
- C08G 2650/20 . . Cross-linking
- C08G 2650/22 . . characterised by the initiator used in polymerisation
- C08G 2650/24 . . Polymeric initiators
- C08G 2650/26 . . Sugars or saccharides used as initiators
- C08G 2650/28 . . characterised by the polymer type
- C08G 2650/30 . . branched
- C08G 2650/32 . . . dendritic or similar
- C08G 2650/34 . . Oligomeric, e.g. cyclic oligomeric
- C08G 2650/36 . . Pre-polymer
- C08G 2650/38 . . containing oxygen in addition to the ether group
- C08G 2650/40 . . . containing ketone groups e.g. polyarylethylketones, PEEK or PEK
- C08G 2650/42 . . . containing orthoester groups
- C08G 2650/44 . . . containing acetal or formal groups
- C08G 2650/46 . . containing halogen
- C08G 2650/48 . . . containing fluorine e.g. perfluoropolyethers
- C08G 2650/50 . . containing nitrogen e.g. polyetheramines or Jeffamines(r)
- C08G 2650/52 . . obtained by dehydration of polyhydric alcohols
- C08G 2650/54 . . . Polyglycerols
- C08G 2650/56 . . Polyhydroxyethers e.g. phenoxy resins
- C08G 2650/58 . . Ethylene oxide or propylene oxide copolymers e.g. pluronics
- C08G 2650/60 . . containing acetylenic group
- C08G 2650/62 . . characterised by the nature of monomer used
- C08G 2650/64 . . Monomer containing functional groups not involved in polymerisation
- C08G 2650/66 . . Oligomeric monomers
- C08G 2650/68 . . Especially purified monomers