

# CPC COOPERATIVE PATENT CLASSIFICATION

**C08L** **COMPOSITIONS OF MACROMOLECULAR COMPOUNDS** (pesticides, herbicides [A01N](#); pharmaceuticals, cosmetics [A61K](#); explosives [C06B](#); compositions based on polymerisable monomers [C08F](#), [C08G](#); paints, inks, varnishes, dyes, polishes, adhesives [C09](#); lubricants [C10M](#); detergents [C11D](#); artificial filaments or fibres [D01F](#); textile treating compositions [D06](#))

## NOTES

1. Compositions classified in [C08K](#) according to note 3 of [C08K](#), are not classified in [C08L](#).
2. Documents classified before 09.2003: Classification is given in the form of C-Sets. The polymer in majority is given a [C08L](#) symbol, and the minor components are characterised by Indexing Codes taken from the list below. The Indexing Codes are linked. The polymer in majority is always first in the C-set. List of [C08L](#) codes: [C08L 23/00](#), [C08L 23/26](#), [C08L 25/00](#), [C08L 27/00](#), [C08L 27/04](#), [C08L 27/12](#), [C08L 29/00](#), [C08L 31/00](#), [C08L 33/00](#), [C08L 35/00](#), [C08L 37/00](#), [C08L 51/00](#), [C08L 53/00](#), [C08L 55/02](#), [C08L 61/04](#), [C08L 61/20](#), [C08L 63/00](#), [C08L 67/00](#), [C08L 67/02](#), [C08L 67/025](#), [C08L 67/03](#), [C08L 67/04](#), [C08L 67/06](#), [C08L 67/07](#), [C08L 69/00](#), [C08L 69/005](#), [C08L 71/00](#), [C08L 75/04](#), [C08L 77/00](#), [C08L 77/08](#), [C08L 77/12](#), [C08L 79/08](#), [C08L 79/085](#), [C08L 81/00](#), [C08L 83/00](#), [C08L 85/00](#), [C08L 91/06](#), [C08L 95/00](#) or [C08L 2666/00](#) - [C08L 2666/86](#). Documents from group [C08L 23/00](#) - [C08L 23/36](#), [C08L 45/00](#) - [C08L 45/02](#) and [C08L 49/00](#) have all been reclassified following Note 3 below. An additive is classified in the last appropriate place in the list as selected for each [C08L](#) group. Examples:
  - a. A composition based on a polyamide and a graft polymer is classified in ( [C08L 77/00](#), [C08L 2666/24](#) ).
  - b. A composition based on polyvinylchloride and containing CaCO<sub>3</sub> is classified according to note 4 of [C08K](#), i.e. in ( [C08K 3/26](#), [C08L 27/06](#) ). If this composition contains also a polyamide, then the classification will be ( [C08L 27/06](#), [C08L 77/00](#), [C08K 3/26](#) ).
  - c. A composition based on a polysiloxane ( [C08L 83/04](#) ) and containing a second polysiloxane, a phenol and silica is classified in ( [C08L 83/04](#), [C08L 83/04](#), [C08L 2666/34](#), [C08L 2666/58](#) ).
3. From 01.09.2003 until April 2012: Classification is given in the form of C-Sets. The polymer in majority is given a [C08L](#) class, and the minor components are characterised by Indexing Codes taken from [C08L](#) or [C08K](#) and they are linked or unlinked. The polymer in majority is always first in the C-Set. List of [C08L](#) codes in the C-Set: [C08L 1/00](#), [C08L 81/00](#), [C08L 83/00](#), [C08L 91/06](#), [C08L 95/00](#) or [C08L 2666/02](#) - [C08L 2666/08](#), [C08L 2666/14](#) - [C08L 2666/26](#). Examples:
  - a. A blend of 60 parts polyvinylchloride ( [C08L 27/06](#) ) and 40 parts polyamide is classified in ( [C08L 27/06](#), [C08L 2666/20](#) ) and [C08L 77/00](#).
  - b. A blend of 50 parts polyvinylchloride ( [C08L 27/06](#) ) and 50 parts polyamide ( [C08L 77/00](#) ) is classified in ( [C08L 27/06](#), [C08L 2666/20](#) ) and [C08L 77/00](#), as well as in ( [C08L 77/00](#), [C08L 2666/04](#) ) and [C08L 27/06](#).
  - c. A composition based on polyvinylchloride and containing CaCO<sub>3</sub> is classified according to [N: Note 4 of [C08K](#), i.e. in ( [C08K 3/26](#), [C08L 27/06](#) ). If this composition contains also a polyamide, then the classification will be ( [C08L 27/06](#), [C08L 2666/20](#) ) and [C08K 3/26](#).
  - d. A composition based on a first polysiloxane ( [C08L 83/04](#) ) and containing a second polysiloxane, a phenol and silica is classified in ( [C08L 83/04](#), [C08L 83/04](#), [C08K 5/13](#), [C08K 3/36](#) ) and [C08L 2205/02](#).
4. From April 2012 onwards, after the notation [C08L](#), notations concerning the other constituents of the composition may be added, in the form of C-Sets. The further constituent is added with an indexing code. The indexing codes are chosen from [C08L 1/00](#) - [C08L 2555/86](#) or [C08K](#) and they may be linked or unlinked: - [C08L 1/00](#) - [C08L 101/10](#) are linked. - [C08L 2201/00](#) - [C08L 2555/86](#) are unlinked. The polymer in majority is always first in the C-Set. Examples:
  - a. A blend of 60 parts polyvinylchloride ( [C08L 27/06](#) ) and 40 parts polyamide ( [C08L 77/00](#) ) is classified in ( [C08L 27/06](#), [C08L 77/00](#) ).
  - b. A blend of 50 parts polyvinylchloride ( [C08L 27/06](#) ) and 50 parts polyamide ( [C08L 77/00](#) ) is classified in ( [C08L 27/06](#), [C08L 77/00](#) ) and ( [C08L 77/00](#), [C08L 27/06](#) ).
  - c. A composition based on polyvinylchloride and containing CaCO<sub>3</sub> is classified according to [N: Note 4 of [C08K](#), i.e. in ( [C08K 3/26](#), [C08L 27/06](#) ). If this composition contains also a polyamide, then the classification will be ( [C08L 27/06](#), [C08L 77/00](#), [C08K 3/26](#) ).
  - d. A composition based on a first polysiloxane ( [C08L 83/04](#) ) and containing a second polysiloxane, a phenol and silica is classified in ( [C08L 83/04](#), [C08L 83/00](#), [C08K 5/13](#), [C08K 3/36](#) ) and [C08L 2205/02](#).
  - e. A composition containing a polyamide in majority, a polyester and a polyethylene is classified in ( [C08L 77/00](#), [C08L 67/00](#), [C08L 23/06](#) ) and [C08L 2205/03](#).
5. "Rubber" includes:
  - natural or conjugated diene rubbers;
  - rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, see the group provided for compositions of such macromolecular compounds).
6. In this subclass:
  - a. compositions are classified according to the mutual proportions by weight of only the macromolecular constituents;

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(continued) b. compositions are classified according to the macromolecular constituent or constituents present in the highest proportion: if all these constituents are present in equal proportions the composition is classified according to each of these constituents.

**Compositions of polysaccharides or of their derivatives**

- 1/00 Compositions of cellulose, modified cellulose or cellulose derivatives**
- 1/02 . Cellulose; Modified cellulose
  - 1/04 . . Oxycellulose; Hydrocellulose {, e.g. microcrystalline cellulose}
  - 1/06 . . Cellulose hydrate
  - 1/08 . Cellulose derivatives
  - 1/10 . . Esters of organic acids {, i.e. acylates}
  - 1/12 . . . Cellulose acetate
  - 1/14 . . . Mixed esters, e.g. cellulose acetate-butyrate
  - 1/16 . . Esters of inorganic acids
  - 1/18 . . . Cellulose nitrate {, i.e. nitrocellulose}
  - 1/20 . . Esters of both organic acids and inorganic acids
  - 1/22 . . Cellulose xanthate
  - 1/24 . . . Viscose
  - 1/26 . . Cellulose ethers
  - 1/28 . . . Alkyl ethers
  - 1/282 . . . . {with halogen-substituted hydrocarbon radicals}
  - 1/284 . . . . {with hydroxylated hydrocarbon radicals}
  - 1/286 . . . . {substituted with acid radicals, e.g. carboxymethyl cellulose [CMC] (C08L 1/282 takes precedence)}
  - 1/288 . . . . {substituted with nitrogen-containing radicals}
  - 1/30 . . . Aryl ethers; Aralkyl ethers
  - 1/32 . . Cellulose ether-esters
- 3/00 Compositions of starch, amylose or amylopectin or of their derivatives or degradation products**
- 3/02 . Starch; Degradation products thereof, e.g. dextrin
  - 3/04 . Starch derivatives {, e.g. crosslinked derivatives}
  - 3/06 . . Esters
  - 3/08 . . Ethers
  - 3/10 . . Oxidised starch
  - 3/12 . Amylose; Amylopectin; Degradation products thereof
  - 3/14 . Amylose derivatives; Amylopectin derivatives
  - 3/16 . . Esters
  - 3/18 . . Ethers
  - 3/20 . . Oxidised amylose; Oxidised amylopectin
- 5/00 Compositions of polysaccharides or of their derivatives not provided for in groups C08L 1/00 or C08L 3/00**
- 5/02 . Dextran; Derivatives thereof
  - 5/04 . Alginic acid; Derivatives thereof
  - 5/06 . Pectin; Derivatives thereof
  - 5/08 . Chitin; Chondroitin sulfate; Hyaluronic acid; Derivatives thereof
  - 5/10 . Heparin; Derivatives thereof
  - 5/12 . {Agar or} agar-agar {, i.e. mixture of agarose and agarpectin}; Derivatives thereof
  - 5/14 . Hemicellulose; Derivatives thereof
  - 5/16 . Cyclodextrin; Derivatives thereof

**Compositions of rubber or of their derivatives**

- 7/00 Compositions of natural rubber**
- 7/02 . Latex
- 9/00 Compositions of homopolymers or copolymers of conjugated diene hydrocarbons**
- 9/02 . Copolymers with acrylonitrile
  - 9/04 . . Latex
  - 9/06 . Copolymers with styrene
  - 9/08 . . Latex
  - 9/10 . Latex (C08L 9/04, C08L 9/08 take precedence)
- 11/00 Compositions of homopolymers or copolymers of chloroprene**
- 11/02 . Latex
- 13/00 Compositions of rubbers containing carboxyl groups**
- 13/02 . Latex
- 15/00 Compositions of rubber derivatives (C08L 11/00, C08L 13/00 take precedence)**
- 15/005 . {Hydrogenated nitrile rubber}
  - 15/02 . Rubber derivatives containing halogen
- 17/00 Compositions of reclaimed rubber**
- 19/00 Compositions of rubbers not provided for in groups C08L 7/00 - C08L 17/00**
- 19/003 . {Precrosslinked rubber; Scrap rubber; Used vulcanised rubber}
  - 19/006 . {Rubber characterised by functional groups, e.g. telechelic diene polymers}
  - 19/02 . Latex
- 21/00 Compositions of unspecified rubbers**
- 21/02 . Latex

**Compositions of macromolecular compounds obtained by reactions involving only carbon-to-carbon unsaturated bonds****NOTE**

{Groups C08L 23/00 - C08L 49/00 are to be interpreted in accordance with Notes 2), 3) and 4 a) following the title of subclass C08F}

- 23/00 Compositions of homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond; Compositions of derivatives of such polymers**
- 23/02 . not modified by chemical after-treatment
  - 23/025 . . {Copolymer of an unspecified olefin with a monomer other than an olefin}
  - 23/04 . . Homopolymers or copolymers of ethene
  - 23/06 . . . Polyethene
  - 23/08 . . . Copolymers of ethene (C08L 23/16 takes precedence)
  - 23/0807 . . . . {Copolymers of ethene with unsaturated hydrocarbons only containing more than three carbon atoms}
  - 23/0815 . . . . . {Copolymers of ethene with aliphatic 1-olefins}

23/0823	. . . . . {Copolymers of ethene with aliphatic cyclic olefins}	25/00	<b>Compositions of, homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an aromatic carbocyclic ring; Compositions of derivatives of such polymers</b>
23/083	. . . . . {Copolymers of ethene with aliphatic polyenes, i.e. containing more than one unsaturated bond}		. Homopolymers or copolymers of hydrocarbons
23/0838	. . . . . {Copolymers of ethene with aromatic monomers}	25/02	. Homopolymers or copolymers of styrene
23/0846	. . . . . {Copolymers of ethene with unsaturated hydrocarbons containing other atoms than carbon or hydrogen atoms}	25/04	. . . Polystyrene
23/0853	. . . . . {Vinylacetate}	25/06	. . . Copolymers of styrene ( <a href="#">C08L 29/08</a> , <a href="#">C08L 35/06</a> , <a href="#">C08L 55/02</a> take precedence)
23/0861	. . . . . {Saponified vinylacetate}	25/10	. . . . with conjugated dienes
23/0869	. . . . . {Acids or derivatives thereof}	25/12	. . . . with unsaturated nitriles
23/0876	. . . . . {Neutralised polymers, i.e. ionomers}	25/14	. . . . with unsaturated esters
23/0884	. . . . . {Epoxide containing esters}	25/16	. . Homopolymers or copolymers of alkyl-substituted styrenes
23/0892	. . . . . {containing monomers with other atoms than carbon, hydrogen or oxygen atoms}	25/18	. Homopolymers or copolymers of aromatic monomers containing elements other than carbon and hydrogen
23/10	. . Homopolymers or copolymers of propene		
23/12	. . . Polypropene		
23/14	. . . Copolymers of propene ( <a href="#">C08L 23/16</a> takes precedence)	27/00	<b>Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a halogen; Compositions of derivatives of such polymers</b>
23/142	. . . . {at least partially crystalline copolymers of propene with other olefins}		. not modified by chemical after-treatment
23/145	. . . . {Copolymers of propene with monomers having more than one C=C double bond}	27/02	. . containing chlorine atoms
23/147	. . . . {Copolymers of propene with monomers containing other atoms than carbon or hydrogen atoms}	27/04	. . . Homopolymers or copolymers of vinyl chloride
23/16	. . {Elastomeric} ethene-propene or ethene-propene-diene copolymers, {e.g. EPR and EPDM rubbers}	27/06	. . . Homopolymers or copolymers of vinylidene chloride
	<b>NOTE</b>	27/08	. . containing bromine or iodine atoms
	This group is used for polymers comprising both ethylene and propylene	27/10	. . containing fluorine atoms
23/18	. . Homopolymers or copolymers of hydrocarbons having four or more carbon atoms	27/12	. . . Homopolymers or copolymers of vinyl fluoride
23/20	. . . having four to nine carbon atoms	27/14	. . . Homopolymers or copolymers or vinylidene fluoride
23/22	. . . Copolymers of isobutene; Butyl rubber {; Homo- or copolymers of other iso-olefins}	27/16	. . . Homopolymers or copolymers or tetrafluoroethene
23/24	. . . having ten or more carbon atoms	27/18	. . . Homopolymers or copolymers of hexafluoropropene
23/26	. modified by chemical after-treatment	27/20	. . . Homopolymers or copolymers of
23/28	. . by reaction with halogens or compounds containing halogen ( <a href="#">C08L 23/32</a> takes precedence)	27/22	. modified by chemical after-treatment
23/283	. . . {Halogenated homo- or copolymers of iso-olefins}	27/24	. . halogenated
23/286	. . . {Chlorinated polyethylene}	29/00	<b>Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo, ketonic, acetal or ketal radical; Compositions of hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic acids; Compositions of derivatives of such polymers</b>
23/30	. . by oxidation		. Homopolymers or copolymers of unsaturated alcohols ( <a href="#">C08L 29/14</a> takes precedence)
23/32	. . by reaction with compounds containing phosphorus or sulfur	29/02	. . Polyvinyl alcohol; Partially hydrolysed homopolymers or copolymers of unsaturated alcohols with saturated carboxylic acids
23/34	. . . by chlorosulfonation	29/04	. . Copolymers of allyl alcohol
23/36	. . by reaction with compounds containing nitrogen, e.g. by nitration	29/06	. . . with vinyl-aromatic monomers
2023/40	. . {by reaction with compounds changing molecular weight}	29/08	. Homopolymers or copolymers of unsaturated ethers ( <a href="#">C08L 35/08</a> takes precedence)
2023/42	. . . {Depolymerisation, vis-breaking or degradation}	29/10	. Homopolymers or copolymers of unsaturated ketones
2023/44	. . . {Coupling; Molecular weight increase}	29/12	

29/14	• Homopolymers or copolymers of acetals or ketals obtained by polymerisation of unsaturated acetals or ketals or by after-treatment of polymers of unsaturated alcohols	35/00	<b>Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical, and containing at least one other carboxyl radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Compositions of derivatives of such polymers</b>
31/00	<b>Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid or of a haloformic acid (of hydrolysed polymers C08L 29/00); Compositions of derivatives of such polymers</b>	35/02	• Homopolymers or copolymers of esters (C08L 35/06, C08L 35/08 take precedence)
31/02	• Homopolymers or copolymers of esters of monocarboxylic acids	35/04	• Homopolymers or copolymers of nitriles (C08L 35/06, C08L 35/08 take precedence)
31/04	• • Homopolymers or copolymers of vinyl acetate	35/06	• Copolymers with vinyl aromatic monomers
31/06	• Homopolymers or copolymers of esters of polycarboxylic acids	35/08	• Copolymers with vinyl ethers
31/08	• • of phthalic acid	37/00	<b>Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen (of cyclic esters of polyfunctional acids C08L 31/00; of cyclic anhydrides of unsaturated acids C08L 35/00); Compositions of derivatives of such polymers</b>
33/00	<b>Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and only one being terminated by only one carboxyl radical, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Compositions of derivatives of such polymers</b>	39/00	<b>Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a single or double bond to nitrogen or by a heterocyclic ring containing nitrogen; Compositions of derivatives of such polymers</b>
33/02	• Homopolymers or copolymers of acids; Metal or ammonium salts thereof	39/02	• Homopolymers or copolymers of vinylamine
33/04	• Homopolymers or copolymers of esters {(C08L 43/04 takes precedence)}	39/04	• Homopolymers or copolymers of monomers containing heterocyclic rings having nitrogen as ring member
33/06	• • of esters containing only carbon, hydrogen and oxygen, which oxygen atoms are present only as part of the carboxyl radical	39/06	• • Homopolymers or copolymers of N-vinylpyrrolidones
33/062	• • • {Copolymers with monomers not covered by C08L 33/06}	39/08	• • Homopolymers or copolymers of vinyl-pyridine
33/064	• • • • {containing anhydride, COOH or COOM groups, with M being metal or onium-cation}	41/00	<b>Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a bond to sulfur or by a heterocyclic ring containing sulfur; Compositions of derivatives of such polymers</b>
33/066	• • • • {containing -OH groups}	43/00	<b>Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing boron, silicon, phosphorus, selenium, tellurium or a metal; Compositions of derivatives of such polymers (of metal salts, e.g. phenolates, alcoholates, see the parent compounds)</b>
33/068	• • • • {containing glycidyl groups}	43/02	• Homopolymers or copolymers of monomers containing phosphorus
33/08	• • • Homopolymers or copolymers of acrylic acid esters	43/04	• Homopolymers or copolymers of monomers containing silicon
33/10	• • • Homopolymers or copolymers of methacrylic acid esters		
33/12	• • • • Homopolymers or copolymers of methyl methacrylate		
33/14	• • of esters containing halogen, nitrogen, sulfur, or oxygen atoms in addition to the carboxy oxygen		
33/16	• • • Homopolymers or copolymers of esters containing halogen atoms		
33/18	• Homopolymers or copolymers of nitriles		
33/20	• • Homopolymers or copolymers of acrylonitrile (C08L 55/02 takes precedence)		
33/22	• • Homopolymers or copolymers of nitriles containing four or more carbon atoms		
33/24	• Homopolymers or copolymers of amides or imides		
33/26	• • Homopolymers or copolymers of acrylamide or methacrylamide		



- 45/00** Compositions of homopolymers or copolymers of compounds having no unsaturated aliphatic radicals in side chain, and having one or more carbon-to-carbon double bonds in a carbocyclic or in a heterocyclic ring system; Compositions of derivatives of such polymers (of cyclic anhydrides or imides [C08L 35/00](#); of cyclic esters of polyfunctional acids [C08L 31/00](#))
- 45/02 . of coumarone-indene polymers
- 47/00** Compositions of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having two or more carbon-to-carbon double bonds; Compositions of derivatives of such polymers ([C08L 45/00](#) takes precedence; of conjugated diene rubbers [C08L 9/00](#) - [C08L 21/00](#))
- 49/00** Compositions of homopolymers or copolymers of compounds having one or more carbon-to-carbon triple bonds; Compositions of derivatives of such polymers
- 51/00** Compositions of graft polymers in which the grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds (for ABS polymers [C08L 55/02](#)); Compositions of derivatives of such polymers
- 51/003 . {grafted on to macromolecular compounds obtained by reactions only involving unsaturated carbon-to-carbon bonds ([C08L 51/04](#), [C08L 51/06](#) take precedence)}
- 51/006 . {grafted on to block copolymers containing at least one sequence of polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds}
- 51/02 . grafted on to polysaccharides
- 51/04 . grafted on to rubbers
- 51/06 . grafted on to homopolymers or copolymers of aliphatic hydrocarbons containing only one carbon-to-carbon double bond
- 51/08 . grafted on to macromolecular compounds obtained otherwise than by reactions only involving unsaturated carbon-to-carbon bonds
- 51/085 . . {on to polysiloxanes}
- 51/10 . grafted on to inorganic materials
- 53/00** Compositions of block copolymers containing at least one sequence of a polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds; Compositions of derivatives of such polymers
- 53/005 . {Modified block copolymers}
- 53/02 . of vinyl-aromatic monomers and conjugated dienes
- 53/025 . . {modified}
- 55/00** Compositions of homopolymers or copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in groups [C08L 23/00](#) - [C08L 53/00](#)
- 55/005 . {Homopolymers or copolymers obtained by polymerisation of macromolecular compounds terminated by a carbon-to-carbon double bond}
- 55/02 . ABS [Acrylonitrile-Butadiene-Styrene] polymers
- 55/04 . Polyadducts obtained by the diene synthesis

- 57/00** Compositions of unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds
- 57/02 . Copolymers of mineral oil hydrocarbons
- 57/04 . Copolymers in which only the monomer in minority is defined
- 57/06 . Homopolymers or copolymers containing elements other than carbon and hydrogen
- 57/08 . . containing halogen atoms
- 57/10 . . containing oxygen atoms
- 57/12 . . containing nitrogen atoms

**Compositions of macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds**

- 59/00** Compositions of polyacetals; Compositions of derivatives of polyacetals (of polyvinyl acetals [C08L 29/14](#))
- 59/02 . Polyacetals containing polyoxymethylene sequences only
- 59/04 . Copolyoxymethylenes
- 61/00** Compositions of condensation polymers of aldehydes or ketones (with polyalcohols [C08L 59/00](#); with polynitriles [C08L 77/00](#)); Compositions of derivatives of such polymers
- 61/02 . Condensation polymers of aldehydes or ketones only
- 61/04 . Condensation polymers of aldehydes or ketones with phenols only
- 61/06 . . of aldehydes with phenols
- 61/12 . . . with polyhydric phenols
- 61/14 . . . Modified phenol-aldehyde condensates
- 61/16 . . of ketones with phenols
- 61/18 . Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives only
- 61/20 . Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (with aminophenols [C08L 61/04](#))
- 61/22 . . of aldehydes with acyclic or carbocyclic compounds
- 61/24 . . . with urea or thiourea
- 61/26 . . of aldehydes with heterocyclic compounds
- 61/28 . . . with melamine
- 61/30 . . of aldehydes with heterocyclic and acyclic or carbocyclic compounds
- 61/32 . . Modified amine-aldehyde condensates
- 61/34 . Condensation polymers of aldehydes or ketones with monomers covered by at least two of the groups [C08L 61/04](#), [C08L 61/18](#) and [C08L 61/20](#)
- 63/00** Compositions of epoxy resins; Compositions of derivatives of epoxy resins
- 63/04 . Epoxynovolacs
- 63/06 . Triglycidylisocyanurates
- 63/08 . Epoxidised polymerised polyenes
- 63/10 . Epoxy resins modified by unsaturated compounds

**NOTE**

In groups [C08L 65/00](#) - [C08L 85/00](#), in the absence of an indication to the contrary, compositions of macromolecular compounds, obtained by reactions forming two different

C08L 63/10 (continued)	linkages in the main chain, are classified only according to the linkage present in excess	75/12	. . from compounds containing nitrogen and active hydrogen, the nitrogen atom not being part of an isocyanate group
<b>65/00</b>	<b>Compositions of macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain (C08L 7/00 - C08L 57/00, C08L 61/00 take precedence); Compositions of derivatives of such polymers</b>	75/14	. . Polyurethanes having carbon-to-carbon unsaturated bonds
65/02	. Polyphenylenes	75/16	. . . having terminal carbon-to-carbon unsaturated bonds
65/04	. Polyxylenes	<b>77/00</b>	<b>Compositions of polyamides obtained by reactions forming a carboxylic amide link in the main chain (of polyhydrazides C08L 79/06; of polyamideimides or polyamide acids C08L 79/08); Compositions of derivatives of such polymers</b>
<b>67/00</b>	<b>Compositions of polyesters obtained by reactions forming a carboxylic ester link in the main chain (of polyester-amides C08L 77/12; of polyester-imides C08L 79/08); Compositions of derivatives of such polymers</b>	77/02	. Polyamides derived from omega-amino carboxylic acids or from lactams thereof (C08L 77/10 takes precedence)
67/02	. Polyesters derived from dicarboxylic acids and dihydroxy compounds (C08L 67/06 takes precedence)	77/04	. Polyamides derived from alpha-amino carboxylic acids (C08L 77/10 takes precedence)
67/025	. . {containing polyether sequences}	77/06	. Polyamides derived from polyamines and polycarboxylic acids (C08L 77/10 takes precedence)
67/03	. . the dicarboxylic acids and dihydroxy compounds having the carboxyl- and the hydroxy groups directly linked to aromatic rings	77/08	. . from polyamines and polymerised unsaturated fatty acids
67/04	. Polyesters derived from hydroxycarboxylic acids, e.g. lactones (C08L 67/06 takes precedence)	77/10	. Polyamides derived from aromatically bound amino and carboxyl groups of amino-carboxylic acids or of polyamines and polycarboxylic acids
67/06	. Unsaturated polyesters	77/12	. Polyester-amides
67/07	. . having terminal carbon-to-carbon unsaturated bonds	<b>79/00</b>	<b>Compositions of macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing nitrogen with or without oxygen or carbon only, not provided for in groups C08L 61/00 - C08L 77/00</b>
67/08	. Polyesters modified with higher fatty oils or their acids, or with resins or resin acids	79/02	. Polyamines
<b>69/00</b>	<b>Compositions of polycarbonates; Compositions of derivatives of polycarbonates</b>	79/04	. Polycondensates having nitrogen-containing heterocyclic rings in the main chain; Polyhydrazides; Polyamide acids or similar polyimide precursors
69/005	. {Polyester-carbonates}	79/06	. . Polyhydrazides; Polytriazoles; Polyamino-triazoles; Polyoxadiazoles
<b>71/00</b>	<b>Compositions of polyethers obtained by reactions forming an ether link in the main chain (of polyacetals C08L 59/00; of epoxy resins C08L 63/00; of polythioether-ethers C08L 81/02; of polyether-sulfones C08L 81/06); Compositions of derivatives of such polymers</b>	79/08	. . Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors
71/02	. Polyalkylene oxides	79/085	. . . {Unsaturated polyimide precursors}
71/03	. . Polyepihalohydrins	<b>81/00</b>	<b>Compositions of macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing sulfur with or without nitrogen, oxygen or carbon only; Compositions of polysulfones; Compositions of derivatives of such polymers</b>
71/08	. Polyethers derived from hydroxy compounds or from their metallic derivatives (C08L 71/02 takes precedence) {not used}	81/02	. Polythioethers; Polythioether-ethers
71/10	. . from phenols {not used}	81/04	. Polysulfides
71/12	. . . Polyphenylene oxides	81/06	. Polysulfones; Polyethersulfones
71/123	. . . . {not modified by chemical after-treatment}	81/08	. Polysulfonates
71/126	. . . . {modified by chemical after-treatment}	81/10	. Polysulfonamides; Polysulfonimides
71/14	. . Furfuryl alcohol polymers	<b>83/00</b>	<b>Compositions of macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing silicon with or without sulfur, nitrogen, oxygen or carbon only; Compositions of derivatives of such polymers</b>
<b>73/00</b>	<b>Compositions of macromolecular compounds obtained by reactions forming a linkage containing oxygen or oxygen and carbon in the main chain, not provided for in groups C08L 59/00 - C08L 71/00; Compositions of derivatives of such polymers</b>	<b>NOTE</b>	<b>In this main group, from 01.09.2010 onwards, new documents are classified according to the following system. The composition is identified with the C-Set, e.g. (C08L83/04, C08L 83/04 ) (for</b>
73/02	. Polyanhydrides		
<b>75/00</b>	<b>Compositions of polyureas or polyurethanes; Compositions of derivatives of such polymers</b>		
75/02	. Polyureas		
75/04	. Polyurethanes		
75/06	. . from polyesters		
75/08	. . from polyethers		
75/10	. . from polyacetals		

C08L 83/00 (continued)	a composition containing two or more siloxanes), while the info
83/02	. Polysilicates
83/04	. Polysiloxanes
83/06	. . containing silicon bound to oxygen-containing groups (C08L 83/12 takes precedence)
83/08	. . containing silicon bound to organic groups containing atoms other than carbon, hydrogen and oxygen
83/10	. Block- or graft-copolymers containing polysiloxane sequences (obtained by polymerising a compound having a carbon-to-carbon double bond on to a polysiloxane C08L 51/08, C08L 53/00)
83/12	. . containing polyether sequences
83/14	. in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms (C08L 83/10 takes precedence)
83/16	. . in which all the silicon atoms are connected by linkages other than oxygen atoms
<b>85/00</b>	<b>Compositions of macromolecular compounds obtained by reactions forming a linkage in the main chain of the macromolecule containing atoms other than silicon, sulfur, nitrogen, oxygen and carbon; Compositions of derivatives of such polymers</b>
85/02	. containing phosphorus
85/04	. containing boron
<b>87/00</b>	<b>Compositions of unspecific macromolecular compounds, obtained otherwise than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds</b>
87/005	. {Block or graft polymers not provided for in groups C08L 1/00 - C08L 85/04}

**Compositions of natural macromolecular compounds or of derivatives thereof (of polysaccharides C08L 1/00 - C08L 5/00; of natural rubber C08L 7/00)**

<b>89/00</b>	<b>Compositions of proteins; Compositions of derivatives thereof (foodstuff preparations A23J 3/00)</b>
89/005	. {Casein}
89/02	. Casein-aldehyde condensates
89/04	. Products derived from waste materials, e.g. horn, hoof or hair
89/06	. . derived from leather or skin {, e.g. gelatin}
<b>91/00</b>	<b>Compositions of oils, fats or waxes; Compositions of derivatives thereof (polishing compositions, ski waxes C09G; soaps, detergent compositions C11D)</b>
91/005	. {Drying oils}
91/02	. Vulcanised oils, e.g. factice
91/04	. Linoxyn
91/06	. Waxes
91/08	. . Mineral waxes
<b>93/00</b>	<b>Compositions of natural resins; Compositions of derivatives thereof (polishing compositions C09G)</b>
93/02	. Shellac (French polish C09F)
93/04	. Rosin
<b>95/00</b>	<b>Compositions of bituminous materials, e.g. asphalt, tar, pitch</b>
95/005	. {Aqueous compositions, e.g. emulsions}

<b>97/00</b>	<b>Compositions of lignin-containing materials</b>
97/002	. {Peat, lignite, coal (ceramic products based on carbon or carbides C04B 35/00; working-up peat C10F 7/00; briquettes C10L 5/00)}
97/005	. {Lignin}
97/007	. {Cork}
97/02	. Lignocellulosic material, e.g. wood, straw or bagasse {(manufacture of articles made from lignocellulosic material by dry processes B27N)}
<b>99/00</b>	<b>Compositions of natural macromolecular compounds or of derivatives thereof not provided for in groups C08L 89/00 - C08L 97/00</b>
<b>101/00</b>	<b>Compositions of unspecified macromolecular compounds</b>
101/005	. {Dendritic macromolecules}
101/02	. characterised by the presence of specified groups, {e.g. terminal or pendant functional groups}
101/025	. . {containing nitrogen atoms}
101/04	. . containing halogen atoms
101/06	. . containing oxygen atoms {(C08L 101/025 takes precedence)}
101/08	. . . Carboxyl groups
101/10	. . containing hydrolysable silane groups
101/12	. characterised by physical features, e.g. anisotropy, viscosity or electrical conductivity (liquid crystal materials or compositions C09K 19/00)
101/14	. . the macromolecular compounds being water soluble or water swellable, e.g. aqueous gels
101/16	. the macromolecular compounds being biodegradable

<b>2201/00</b>	<b>Properties</b>
2201/02	. Flame or fire retardant/resistant
2201/04	. Antistatic
2201/06	. Biodegradable
2201/08	. Stabilised against heat, light or radiation or oxydation
2201/10	. Transparent films; Clear coatings; Transparent materials
2201/12	. Shape memory
2201/14	. Gas barrier composition
2201/22	. Halogen free composition
2201/50	. Aqueous dispersion, e.g. containing polymers with a glass transition temperature (Tg) above 20°C
2201/52	. Aqueous emulsion or latex, e.g. containing polymers of a glass transition temperature (Tg) below 20°C
2201/54	. Aqueous solutions or dispersions
2201/56	. Non-aqueous solutions or dispersions

**Properties; Applications; Other features**

<b>2203/00</b>	<b>Applications</b>
2203/02	. for biomedical use
2203/10	. used for bottles
2203/12	. used for fibers
2203/14	. used for foams
2203/16	. used for films
2203/162	. . sealable films
2203/18	. used for pipes
2203/20	. use in electrical or conductive gadgets

2203/202	. . use in electrical wires or wirecoating	2312/02	. with dienes
2203/204	. . use in solar cells	2312/04	. with phenolic resin
2203/206	. . use in coating or encapsulating of electronic parts	2312/06	. by radiation
2203/30	. used for thermoforming	2312/08	. by silane
2203/40	. used as motor oil additive		
<b>2205/00</b>	<b>Polymer mixtures characterised by other features</b>	<b>2314/00</b>	<b>Polymer mixtures characterised by way of preparation</b>
2205/02	. containing two or more polymers of the same <a href="#">C08L</a> -group	2314/02	. Ziegler natta catalyst
2205/025	. . containing two or more polymers of the same hierarchy <a href="#">C08L</a> , and differing only in parameters such as density, comonomer content, molecular weight, structure	2314/04	. Philipps catalyst
2205/03	. containing three or more polymers in a blend	2314/06	. Metallocene or single site catalysts
2205/035	. . containing four or more polymers in a blend	2314/08	. prepared by late transition metal, i.e. Ni, Pd, Pt, Co, Rh, Ir, Fe, Ru or Os, single site catalyst
2205/04	. containing interpenetrating networks		
2205/05	. containing polymer components which can react with one another	<b>2555/00</b>	<b>Characteristics of bituminous mixtures</b>
2205/06	. having improved processability or containing aids for moulding methods	2555/10	. Design or test methods for bitumen or asphalt mixtures, e.g. series of measures, procedures or tests to obtain a bitumen or asphalt mixture having preset defined properties, general or international test methods, procedures or standards
2205/08	. containing additives to improve the compatibility between two polymers	2555/20	. Mixtures of bitumen and aggregate defined by their production temperatures, e.g. production of asphalt for road or pavement applications
2205/12	. containing additives being liquid crystalline or anisotropic in the melt	2555/22	. . Asphalt produced above 140°C, e.g. hot melt asphalt
2205/14	. containing polymeric additives characterised by shape	2555/24	. . Asphalt produced between 100°C and 140°C, e.g. warm mix asphalt
2205/16	. . Fibres; Fibrils	2555/26	. . Asphalt produced between 65°C and 100°C, e.g. half warm mix asphalt, low energy asphalt produced at 95°C or low temperature asphalt produced at 90°C
2205/18	. . Spheres	2555/28	. . Asphalt produced between 0°C and below 65°C, e.g. cold mix asphalt produced between 0°C and 35°C
2205/20	. . . Hollow spheres	2555/30	. Environmental or health characteristics, e.g. energy consumption, recycling or safety issues
2205/22	. Mixtures comprising a continuous polymer matrix in which are dispersed crosslinked particles of another polymer	2555/32	. . Environmental burden or human safety, e.g. CO <sub>2</sub> footprint, fuming or leaching
2205/24	. Crystallisation aids	2555/34	. . Recycled or waste materials, e.g. reclaimed bitumen, asphalt, roads or pathways, recycled roof coverings or shingles, recycled aggregate, recycled tires, crumb rubber, glass or cullet, fly or fuel ash, or slag
2205/242	. . Beta spherulite nucleating agents	2555/40	. Mixtures based upon bitumen or asphalt containing functional additives
<b>2207/00</b>	<b>Properties characterising the ingredient of the composition</b>	2555/50	. . Inorganic non-macromolecular ingredients
2207/02	. Heterophasic composition	2555/52	. . . Aggregate, e.g. crushed stone, sand, gravel or cement
2207/04	. Thermoplastic elastomer	2555/54	. . . Sulfur or carbon black
2207/06	. Properties of polyethylene	2555/60	. . Organic non-macromolecular ingredients, e.g. oil, fat, wax or natural dye
2207/062	. . HDPE	2555/62	. . . from natural renewable resources
2207/064	. . VLDPE	2555/64	. . . . Oils, fats or waxes based upon fatty acid esters, e.g. fish oil, olive oil, lard, cocoa butter, bees wax or carnauba wax
2207/066	. . LDPE (radical process)	2555/70	. . . from natural non-renewable resources
2207/068	. . Ultra high molecular weight polyethylene	2555/72	. . . . Petrochemical based or extracted waxes, e.g. paraffin, Montan wax or cracked polyethylene wax
2207/07	. . Long chain branching	2555/74	. . . . Petrochemicals other than waxes, e.g. synthetic oils, diesel or other fuels, hydrocarbons, halogenated or otherwise functionalized hydrocarbons
2207/10	. Peculiar tacticity	2555/80	. . Macromolecular constituents
2207/12	. . Syndiotactic polypropylene	2555/82	. . . from natural renewable resources, e.g. starch, cellulose, saw dust, straw, hair or shells
2207/14	. . Amorphous or atactic polypropylene		
2207/20	. Recycled plastic		
2207/22	. . Recycled asphalt		
2207/24	. . recycling of old tyres and caoutchouc and addition of caoutchouc particles		
2207/26	. . recycling of glass in bitumen		
2207/32	. containing low molecular weight liquid component		
2207/322	. . Liquid component is processing oil		
2207/324	. . Liquid component is low molecular weight polymer		
2207/53	. Core-shell polymer		
<b>2308/00</b>	<b>Chemical blending or stepwise polymerisation process with the same catalyst</b>		
<b>2310/00</b>	<b>Masterbatches</b>		
<b>2312/00</b>	<b>Crosslinking</b>		



2555/84	. . . Polymers comprising styrene, e.g. , polystyrene, styrene-diene copolymers or styrene-butadiene-styrene copolymers	2666/48	. . . Organo-metallic compounds, i.e. organic compounds containing a metal-to-carbon bond
2555/86	. . . Polymers containing aliphatic hydrocarbons only, e.g. polyethylene, polypropylene or ethylene-propylene-diene copolymers	2666/50	. . . Arsenic- or antimony-containing compounds
2666/00	<b>Composition of polymers characterized by a further compound in the blend, being organic macromolecular compounds, natural resins, waxes or and bituminous materials, non-macromolecular organic substances, inorganic substances or characterized by their function in the composition (not used)</b>	2666/52	. . . Metal-containing compounds
	<b>NOTE</b>	2666/54	. . . Inorganic substances
	These codes are not used for the classification of new documents. They are a replacement of the combination classes.	2666/55	. . . Carbon
2666/02	. . . Organic macromolecular compounds, natural resins, waxes or and bituminous materials	2666/58	. . . SiO <sub>2</sub> or silicates
2666/04	. . . Macromolecular compounds according to groups <a href="#">C08L 7/00</a> - <a href="#">C08L 49/00</a> , or <a href="#">C08L 55/00</a> - <a href="#">C08L 57/00</a> ; Derivatives thereof	2666/60	. . . Asbestos
2666/06	. . . Homopolymers or copolymers of unsaturated hydrocarbons; Derivatives thereof	2666/62	. . . Clay
2666/08	. . . Homopolymers or copolymers according to <a href="#">C08L 7/00</a> - <a href="#">C08L 21/00</a> ; Derivatives thereof	2666/64	. . . Sulfur
2666/10	. . . Homopolymers or copolymers according to <a href="#">C08L 39/00</a> - <a href="#">C08L 49/00</a> ; Derivatives thereof	2666/66	. . . Substances characterised by their function in the composition
2666/12	. . . Homopolymers or copolymers not provided for in <a href="#">C08L 2666/06</a> - <a href="#">C08L 2666/10</a>	2666/68	. . . Plasticizers; Solvents
2666/14	. . . Macromolecular compounds according to <a href="#">C08L 59/00</a> - <a href="#">C08L 87/00</a> ; Derivatives thereof	2666/70	. . . Organic dyes or pigments; Optical brightening agents
2666/16	. . . Addition or condensation polymers of aldehydes or ketones according to <a href="#">C08L 59/00</a> - <a href="#">C08L 61/00</a> ; Derivatives thereof	2666/72	. . . Fillers; Inorganic pigments; Reinforcing additives
2666/18	. . . Polyesters or polycarbonates according to <a href="#">C08L 67/00</a> - <a href="#">C08L 69/00</a> ; Derivatives thereof	2666/74	. . . Aggregates
2666/20	. . . Macromolecular compounds having nitrogen in the main chain according to <a href="#">C08L 75/00</a> - <a href="#">C08L 79/00</a> ; Derivatives thereof	2666/76	. . . Textured backings, e.g. woven or non-woven
2666/22	. . . Macromolecular compounds not provided for in <a href="#">C08L 2666/16</a> - <a href="#">C08L 2666/20</a>	2666/78	. . . Stabilisers against oxidation, heat, light or ozone
2666/24	. . . Graft or block copolymers according to groups <a href="#">C08L 51/00</a> , <a href="#">C08L 53/00</a> or <a href="#">C08L 55/02</a> ; Derivatives thereof	2666/80	. . . Metal-containing stabilizers
2666/26	. . . Natural polymers, natural resins or derivatives thereof according to <a href="#">C08L 1/00</a> - <a href="#">C08L 5/00</a> , <a href="#">C08L 89/00</a> , <a href="#">C08L 93/00</a> , <a href="#">C08L 97/00</a> or <a href="#">C08L 99/00</a>	2666/82	. . . Phosphorus-containing stabilizers
2666/28	. . . Non-macromolecular organic substances	2666/84	. . . Flame-proofing or flame-retarding additives
2666/30	. . . Hydrocarbons	2666/86	. . . Antistatics
2666/32	. . . Halogen-containing compounds		
2666/34	. . . Oxygen-containing compounds, including ammonium and metal salts		
2666/36	. . . Nitrogen-containing compounds		
2666/38	. . . Sulfur-, selenium- or tellurium-containing compounds		
2666/40	. . . Phosphorus-containing compounds		
2666/42	. . . Compounds containing phosphorus and sulfur		
2666/44	. . . Silicon-containing compounds		
2666/46	. . . Boron-containing compounds		