

CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

CHEMISTRY

C08 ORGANIC MACROMOLECULAR COMPOUNDS; THEIR PREPARATION OR CHEMICAL WORKING-UP; COMPOSITIONS BASED THEREON (manufacture or treatment of artificial threads, fibres, bristles or ribbons [D01](#))

C08J WORKING-UP; GENERAL PROCESSES OF COMPOUNDING; AFTER-TREATMENT NOT COVERED BY SUBCLASSES [C08B](#), [C08C](#), [C08F](#), [C08G](#) (mechanical aspects [B29](#); layered products, manufacture thereof [B32B](#); treatment of macromolecular material specially adapted to enhance its filling properties in mortars, concrete or artificial stone [C04B 16/04](#), [C04B 18/20](#), [C04B 20/00](#); treatment of textiles [D06](#))

NOTES

1. This subclass covers processes, not covered by subclasses [C08B](#) - [C08H](#), for treating polymers.
In this subclass, in the absence of an indication to the contrary, classification is made in the last appropriate place
2. When classifying in subclass [C08J](#), the treatment of specific polymers is indicated using indexing codes chosen from [C08J 2300/00](#) or subgroups thereof.

Example:

- Preparation of particles of polystyrene by impregnation of the particles with the blowing agent: [C08J 9/18](#) and [C08J 2325/06](#).

The use of a polymeric component in minority, e.g. masterbatch, coating, impregnating agent or thin binder is indicated using indexing codes chosen from [C08J 2400/00](#) or subgroups thereof. Examples:

- Use of PMMA as masterbatch in a polystyrene composition: [C08J 3/226](#) and [C08J 2325/06](#) and [C08J 2433/10](#)
- Bonding of polystyrene by heating: [C08J 5/121](#) and [C08J 2325/06](#)
- Coating of a polyethylene substrate with a polyurethane coating: [C08J 7/047](#) and [C08J 2323/06](#) and [C08J 2475/04](#)
- Use of ABS as an additive for foamed polyacrylamide : [C08J 9/0061](#) and [C08J 2333/26](#) and [C08J 2455/02](#)

In the following subgroups, the codes of [C08J 2300/00](#) - [C08J 2399/00](#) are used to specify:

- [C08J 3/226](#) : the polymeric material to which the masterbatch carrier is added.
- [C08J 7/047](#) : the polymeric substrate to be coated.
- [C08J 9/0061](#) : the polymeric component in majority in a multicomponents foamable blend.

3. Group [C08J 2400/00](#) was introduced on January 1st, 2012. Patent documents are continuously being reclassified. As a consequence, documents published before 01/01/2012, and to which [C08J 2400/00](#) indexing codes were allocated, are indexed in the corresponding head group. Example:

- Use of PMMA as masterbatch in a polystyrene composition: [C08J 3/226](#) and [C08J 2325/06](#) and [C08J 2433/00](#), instead of [C08J 2433/10](#).

In the following subgroups, the codes of [C08J 2400/00](#) - [C08J 2499/00](#) are used to specify:

- [C08J 3/226](#) : the polymeric carrier in a masterbatch.
- [C08J 5/12](#) : the chemical nature of the adhesive
- [C08J 7/047](#) : the chemical nature of the coating(s).
- [C08J 9/0061](#) : the polymeric component in minority in a multicomponents foamable blend.
- [C08J 9/224](#), [C08J 9/236](#), [C08J 9/36](#), [C08J 9/40](#) and [C08J 9/42](#) : the polymer used for coating, binding, or impregnating the foam. [C08J 9/26](#) : the polymer to be leached out.
- [C08J 9/33](#) and [C08J 9/35](#) : the foam fragments included in the (foamable) polymer matrix.
- in all other subgroups, when the presence of a polymeric component in minority is of relevance.

WARNINGS

1. The following IPC groups are not in the CPC scheme. The subject matter for these IPC groups is classified in the following CPC groups:

C08J 5/14	covered by	B24D 3/20 , F16D 69/02
C08J 5/16	covered by	C10M
2. In this subclass non-limiting references (in the sense of paragraph 39 of the Guide to the IPC) may still be displayed in the scheme.

3/00	Processes of treating or compounding macromolecular substances	3/241	. . {Preventing premature crosslinking by physical separation of components, e.g. encapsulation (of other ingredients C08K 9/00)}
3/005	. {Processes for mixing polymers}	3/242	. . {Applying crosslinking or accelerating agent onto compounding ingredients such as fillers, reinforcements}
3/02	. Making solutions, dispersions or lattices by other methods than by solution, emulsion or suspension polymerisation techniques	3/243	. . {Two or more independent types of crosslinking for one or more polymers}
3/03	. . in aqueous media	3/244	. . {Stepwise homogeneous crosslinking of one polymer with one crosslinking system, e.g. partial curing}
3/05	. . . from solid polymers	3/245	. . {Differential crosslinking of one polymer with one crosslinking type, e.g. surface crosslinking}
3/07	. . . from polymer solutions	3/246	. . {Intercrosslinking of at least two polymers}
3/075	. . . Macromolecular gels	3/247	. . {Heating methods}
3/09	. . in organic liquids	3/248	. . {Measuring crosslinking reactions}
3/091	. . . {characterised by the chemical constitution of the organic liquid}	3/26	. . of latex
3/092	. . . . {Hydrocarbons}	3/28	. Treatment by wave energy or particle radiation
3/093	. . . . {Halogenated hydrocarbons}	5/00	Manufacture of articles or shaped materials containing macromolecular substances (shaping of foodstuffs A23P; manufacture of semi-permeable membranes B01D 67/00 - B01D 71/00; mechanical features, see the relevant classes, e.g. B29)
3/095	. . . . {Oxygen containing compounds}	5/005	. {Reinforced macromolecular compounds with nanosized materials, e.g. nanoparticles, nanofibres, nanotubes, nanowires, nanorods or nanolayered materials (use of ingredients characterised by shape C08K 7/00 ; nanotechnology for materials and surface science B82Y 30/00)}
3/096	. . . . {Nitrogen containing compounds}	5/02	. Direct processing of dispersions, e.g. latex, to articles
3/097	. . . . {Sulfur containing compounds}	5/04	. Reinforcing macromolecular compounds with loose or coherent fibrous material (after-treatment of threads during manufacture D01F ; {finishing of textiles D06M })
3/098	. . . . {Other compounds}	5/041	. . {with metal fibres}
3/11	. . . from solid polymers	5/042	. . {with carbon fibres}
3/12	. Powdering or granulating {(preparation of active ingredients, e.g. medical preparations in form of capsules A61K 9/51 ; making granules B29B 9/00)}	5/043	. . {with glass fibres}
3/122	. . {Pulverisation by spraying}	5/044	. . {with other inorganic fibres}
3/124	. . {Treatment for improving the free-flowing characteristics (agglomerates, granulates or microbeadlets A61K 9/16 ; process or devices for granulating material, e.g. non-sticking properties B01J 2/30 ; auxiliary treatment of particle B29B 9/16)}	5/045	. . {with vegetable or animal fibrous material}
3/126	. . {Polymer particles coated by polymer, e.g. core shell structures (process or devices for granulating material, e.g. coating B01J 2/003)}	5/046	. . {with synthetic macromolecular fibrous material}
3/128	. . {Polymer particles coated by inorganic and organic compounds (macromolecules C08J 3/126)}		NOTE
3/14	. . by precipitation from solutions {(C08J 3/122 takes precedence)}		{ Note 2 following the title of subclass C08J may be applied }
3/16	. . by coagulating dispersions {(C08J 3/122 takes precedence; treatment of polymer emulsion, e.g. coagulation C08F 6/22)}	5/047	. . {with mixed fibrous material}
3/18	. Plasticising macromolecular compounds (plasticisers C08K)	5/048	. . . {Macromolecular compound to be reinforced also in fibrous form}
3/20	. Compounding polymers with additives, e.g. colouring	5/06	. . using pretreated fibrous materials
3/201	. . {Pre-melted polymers}	5/08	. . . glass fibres
3/203	. . {Solid polymers with solid and/or liquid additives}	5/10	. . characterised by the additives used in the polymer mixture
3/205	. . in the presence of a {continuous} liquid phase	5/12	. Bonding of a preformed macromolecular material to the same or other solid material such as metal, glass, leather, e.g. using adhesives {(mechanical aspects B29C 65/00)}
3/2053	. . . {the additives only being premixed with a liquid phase}	5/121	. . {by heating}
3/2056	. . . . {the polymer being pre-melted}	5/122	. . {using low molecular chemically inert solvents, swelling or softening agents}
3/21	. . . the polymer being premixed with a liquid phase	5/124	. . {using adhesives based on a macromolecular component (adhesive compositions per se C09J 4/00 , C09J 101/00 - C09J 201/00)}
3/212	. . . . {and solid additives}	5/125	. . . {Adhesives in organic diluents}
3/215	. . . . at least one additive being also premixed with a liquid phase		
3/22	. . using masterbatch techniques		
3/223	. . . {Packed additives}		
3/226	. . . {using a polymer as a carrier}		
3/24	. Crosslinking, e.g. vulcanising, of macromolecules (mechanical aspects B29C 35/00 ; crosslinking agents C08K ; crosslinking aspects not classifiable in C08G , C08F , C08K ; compounding C08J 3/20)		

- 5/127 . . . {Aqueous adhesives}
- 5/128 . . . {Adhesives without diluent}
- 5/18 . Manufacture of films or sheets {(producing films or sheets [B29D 7/01](#); wrappers or flexible covers, packaging materials of special type or form [B65D 65/00](#) - [B65D 65/466](#); shaping by stretching characterized by the choice of materials [B29C 55/005](#); layered products essentially comprising synthetic resin [B32B 27/00](#) - [B32B 27/42](#))}
- 5/20 . Manufacture of shaped of ion-exchange resins {Use of macromolecular compounds as anion [B01J 41/14](#) or cation [B01J 39/20](#) exchangers}
- 5/22 . . Films, membranes, or diaphragms {(ion-exchange in general, [B01J 39/18](#) - [B01J 39/22](#), [B01J 41/12](#) - [B01J 41/16](#), [B01J 43/00](#), [B01J 45/00](#), [B01J 47/12](#) - [B01J 49/00](#); fuel cells with polymeric electrolyte material [H01M 8/1018](#))}
- NOTES**
1. {Membranes of which at least the ion-exchanging parts are inorganic, i.e. mixtures of non polymeric ion exchange compounds, e.g. inorganic salts, and at least one polymer are classified in [C08J 5/22](#); membranes based on cellulose are classified in [C08J 5/2212](#).}
 2. Methods for incorporating reinforcement supports or filling bodies are classified in [C08J 5/2206](#) (the support or filling body has no ion exchange activity).
 3. Groups, e.g. SO₂F, which do not have ion-exchanging properties, but which may, by simple hydrolysis in an alkaline, neutral or acid medium, be transformed into ion-exchanging groups, e.g. SO₂H, are considered as such.
 4. Ion-exchanging fibrous fabrics are considered as heterogeneous membranes and are classified in [C08J 5/2275](#); they include composite membranes, mixtures of two or more (ion exchange) polymers.
 5. Membranes obtained by homogeneous melting or from a solution are considered as homogeneous, even if the membrane contains (after solidification of the melt or the solution) heterogeneous elements, e.g. filling bodies, supports e.g. in the form of fabrics, or the like, i.e. the ion exchange resin forms the membrane.
 6. Reactions which change the nature of the ion-exchanging groups, introduction of ion-exchanging groups, after-treatment (membrane has already been formed) are classified in [C08J 5/2287](#).
 7. Quaternising reactions are not considered as after-treatments.
- 5/2206 . . . {based on organic and/or inorganic macromolecular compounds}
- 5/2212 {Natural macromolecular compounds}
- 5/2218 {Synthetic macromolecular compounds}
- 5/2225 {containing fluorine}
- 5/2231 {based on macromolecular compounds obtained by reactions involving unsaturated carbon-to-carbon bonds}
- 5/2237 {containing fluorine}
- 5/2243 {obtained by introduction of active groups capable of ion-exchange into compounds of the type [C08J 5/2231](#)}
- 5/225 {containing fluorine}
- 5/2256 {based on macromolecular compounds obtained by reactions other than those involving carbon-to-carbon bonds, e.g. obtained by polycondensation}
- 5/2262 {containing fluorine}
- 5/2268 {based on macromolecular compounds obtained by reactions involving unsaturated carbon-to-carbon bonds, and by reactions not involving this type of bond}
- 5/2275 {Heterogeneous membranes}
- 5/2281 {fluorine containing heterogeneous membranes}
- 5/2287 . . . {After-treatment}
- 5/2293 {After-treatment of fluorine-containing membranes}
- 5/24 . Impregnating materials with prepolymers which can be polymerised in situ, e.g. manufacture of prepregs
- 7/00 Chemical treatment or coating of shaped articles made of macromolecular substances (coating with metallic material [C23C](#); electrolytic deposition of metals [C25](#))**
- 7/02 . with solvents, e.g. swelling agents
- 7/04 . Coating {(coating compositions per se [C09D 4/00](#), [C09D 101/00](#) - [C09D 201/00](#))}
- 7/042 . . {with two or more layers, where at least one layer of a composition contains a polymer binder}
- 7/045 . . . {with at least one layer of inorganic material and at least one layer of a composition containing a polymer binder}
- 7/047 . . {with only one layer of a composition containing a polymer binder (with more layers [C08J 7/042](#))}
- 7/06 . . with compositions not containing macromolecular substances
- 7/065 . . . {Low-molecular-weight organic substances, e.g. absorption of additives in the surface of the article}
- 7/08 . {Heat treatment}
- 7/12 . Chemical modification
- 7/123 . . {Treatment by wave energy or particle radiation ([C08J 7/18](#) takes precedence; surface shaping of articles by plasma treatment [B29C 59/14](#), by wave energy or particle radiation [B29C 59/16](#))}
- 7/126 . . {Halogenation}
- 7/14 . . with acids, their salts or anhydrides
- 7/16 . . with polymerisable compounds
- 7/18 . . . using wave energy or particle radiation
- 9/00 Working-up of macromolecular substances to porous or cellular articles or materials; After-treatment thereof (mechanical aspects [B29C 44/00](#); foamed polymeric products of isocyanates or isothiocyanates characterised by the monomers or catalysts used [C08G 18/00](#))**
- 9/0004 . {Use of compounding ingredients, the chemical constitution of which is unknown, broadly defined, or irrelevant}
- 9/0009 . . {Phase change materials}
- 9/0014 . {Use of organic additives}

- 9/0019 . . {halogenated}
- 9/0023 . . {containing oxygen}
- 9/0028 . . {containing nitrogen}
- 9/0033 . . {containing sulfur}
- 9/0038 . . {containing phosphorus}
- 9/0042 . . {containing silicon}
- 9/0047 . . {containing boron}
- 9/0052 . . {Organo-metallic compounds}
- 9/0057 . . {containing antimony, arsenic, or bismuth}
- 9/0061 . {characterized by the use of several polymeric components}
- 9/0066 . {Use of inorganic compounding ingredients}
- 9/0071 . . {Nanosized fillers, i.e. having at least one dimension below 100 nanometers}
- 9/0076 . . . {Nanofibres}
- 9/008 . . . {Nanoparticles}
- 9/0085 . {Use of fibrous compounding ingredients ([C08J 9/0076 takes precedence](#))}
- 9/009 . {Use of pretreated compounding ingredients}
- 9/0095 . {Mixtures of at least two compounding ingredients belonging to different one-dot groups}
- 9/02 . using blowing gases generated by the reacting monomers or modifying agents during the preparation or modification of macromolecules
- 9/04 . using blowing gases generated by a previously added blowing agent
- 9/06 . . by a chemical blowing agent
- 9/065 . . . {Hydrides or carbides}
- 9/08 . . . developing carbon dioxide
- 9/10 . . . developing nitrogen {, the blowing agent being a compound containing a nitrogen-to-nitrogen bond}
- 9/101 {Agents modifying the decomposition temperature}
- 9/102 {Azo-compounds}
- 9/103 {Azodicarbonamide}
- 9/104 {Hydrazines; Hydrazides; Semicarbazides; Semicarbazones; Hydrazones; Derivatives thereof}
- 9/105 {containing sulfur}
- 9/106 {Azides}
- 9/107 {Nitroso compounds}
- 9/108 {in a heterocyclic ring containing at least one carbon atom}
- 9/12 . . by a physical blowing agent
- 9/122 . . . {Hydrogen, oxygen, CO₂, nitrogen or noble gases}
- 9/125 . . . {Water, e.g. hydrated salts}
- 9/127 . . . {Mixtures of organic and inorganic blowing agents}
- 9/14 . . . organic
- 9/141 {Hydrocarbons}
- 9/142 {Compounds containing oxygen but no halogen atom}
- 9/143 {Halogen containing compounds}
- 9/144 {containing carbon, halogen and hydrogen only}
- 9/145 {only chlorine as halogen atoms}
- 9/146 {only fluorine as halogen atoms}
- 9/147 {containing carbon and halogen atoms only}
- 9/148 {perfluorinated}
- 9/149 {Mixtures of blowing agents covered by more than one of the groups [C08J 9/141](#) - [C08J 9/143](#)}
- NOTE**
- In groups [C08J 9/16](#) - [C08J 9/232](#), the following term is used with the meaning indicated:
- "expandable" includes also expanding, pre-expanded or expanded
- 9/16 . Making expandable particles
- 9/18 . . by impregnating polymer particles with the blowing agent
- 9/20 . . by suspension polymerisation in the presence of the blowing agent
- 9/22 . After-treatment of expandable particles; Forming foamed products
- 9/224 . . Surface treatment
- 9/228 . . Forming foamed products
- 9/232 . . . by sintering expandable particles
- 9/236 . . . using binding agents
- 9/24 . by surface fusion and bonding of particles to form voids, e.g. sintering ([of expandable particles C08J 9/232](#))
- 9/26 . by elimination of a solid phase from a macromolecular composition or article, e.g. leaching out
- 9/28 . by elimination of a liquid phase from a macromolecular composition or article, e.g. drying of coagulum
- 9/283 . . {a discontinuous liquid phase emulsified in a continuous macromolecular phase}
- 9/286 . . {the liquid phase being a solvent for the monomers but not for the resulting macromolecular composition, i.e. macroporous or macroreticular polymers}
- 9/30 . by mixing gases into liquid compositions or plastisols, e.g. frothing with air
- 9/32 . from compositions containing microballoons, e.g. syntactic foams ([making microballoons B01J 13/02](#))
- 9/33 . Agglomerating foam fragments, e.g. waste foam
- 9/34 . Chemical features in the manufacture of articles consisting of a foamed macromolecular core and a macromolecular surface layer having a higher density than the core
- 9/35 . Composite foams, i.e. continuous macromolecular foams containing discontinuous cellular particles or fragments
- 9/36 . After-treatment
- 9/365 . . {Coating}
- 9/38 . . Destruction of cell membranes
- 9/40 . . Impregnation
- 9/405 . . . {with polymerisable compounds}
- 9/42 . . . with macromolecular compounds
- 11/00 Recovery or working-up of waste materials** ([polymerisation processes involving purification or recycling of waste polymers or their depolymerisation products C08B, C08C, C08E, C08G, C08H; mechanical treatments B29](#))
- 11/02 . of solvents, plasticisers or unreacted monomers
- 11/04 . of polymers
- 11/06 . . without chemical reactions

11/08	. . . using selective solvents for polymer components (working-up tar by extraction with selective solvents C10C 1/18 ; working-up pitch, asphalt, bitumen by selective extraction C10C 3/08)	2201/04	. characterised by the elimination of a liquid or solid component, e.g. precipitation, leaching out, evaporation
11/10	. . by chemically breaking down the molecular chains of polymers or breaking of crosslinks, e.g. devulcanisation (depolymerisation to the original monomer C07 ; production of liquid hydrocarbon mixtures from rubber or rubber waste C10G 1/10 ; {depolymerisation of halogenated hydrocarbon polymers C07C 17/367 ; depolymerisation of polyesters, C07C 51/09 , C07C 63/26 ; depolymerisation of polyamides C07D 201/12 ; depolymerisation of rubber C08C 19/08 })		NOTE When the elimination is performed in several steps, only the first step is indicated using codes C08J 2201/042 - C08J 2201/0547
11/105	. . . {by treatment with enzymes}	2201/042	. . Elimination of an organic solid phase
11/12	. . . by dry-heat treatment only (destructive distillation of carbonaceous materials for production of gas, coke, tar or similar matters C10B)	2201/0422	. . . containing oxygen atoms, e.g. saccharose
11/14	. . . by treatment with steam or water	2201/0424	. . . containing halogen, nitrogen, sulphur or phosphorus atoms
11/16	. . . by treatment with inorganic material (C08J 11/14 takes precedence)	2201/044	. . Elimination of an inorganic solid phase
11/18	. . . by treatment with organic material	2201/0442	. . . the inorganic phase being a metal, its oxide or hydroxide
11/20	. . . . by treatment with hydrocarbons or halogenated hydrocarbons	2201/0444	. . . Salts
11/22	. . . . by treatment with organic oxygen-containing compounds	2201/0446	. . . . Elimination of NaCl only
11/24	. . . . containing hydroxyl groups	2201/046	. . Elimination of a polymeric phase
11/26	. . . . containing carboxylic acid groups, their anhydrides or esters	2201/0462	. . . using organic solvents
11/28	. . . . by treatment with organic compounds containing nitrogen, sulfur or phosphorus	2201/0464	. . . using water or inorganic fluids
99/00	Subject matter not provided for in other groups of this subclass	2201/048	. . Elimination of a frozen liquid phase
2201/00	Foams characterised by the foaming process	2201/0482	. . . the liquid phase being organic
2201/02	. characterised by mechanical pre- or post-treatments	2201/0484	. . . the liquid phase being aqueous
2201/022	. . premixing or pre-blending a part of the components of a foamable composition, e.g. premixing the polyol with the blowing agent, surfactant and catalyst and only adding the isocyanate at the time of foaming	2201/05	. . Elimination by evaporation or heat degradation of a liquid phase
2201/024	. . Preparation or use of a blowing agent concentrate, i.e. masterbatch in a foamable composition	2201/0502	. . . the liquid phase being organic
2201/026	. . Crosslinking before of after foaming	2201/0504	. . . the liquid phase being aqueous
2201/028	. . Foaming by preparing of a high internal phase emulsion	2201/052	. . Inducing phase separation by thermal treatment, e.g. cooling a solution
2201/03	. . Extrusion of the foamable blend	2201/0522	. . . the liquid phase being organic
2201/032	. . Impregnation of a formed object with a gas (expandable particles, e.g. polystyrene beads C08J 9/18)	2201/0524	. . . the liquid phase being aqueous
2201/034	. . Post-expanding of foam beads or sheets	2201/054	. . Precipitating the polymer by adding a non-solvent or a different solvent
2201/036	. . Use of an organic, non-polymeric compound to impregnate, bind or coat a foam, e.g. fatty acid ester	2201/0542	. . . from an organic solvent-based polymer composition
2201/038	. . Use of an inorganic compound to impregnate, bind or coat a foam, e.g. waterglass	2201/0543	. . . . the non-solvent being organic
		2201/0544	. . . . the non-solvent being aqueous
		2201/0545	. . . from an aqueous solvent-based polymer composition
		2201/0546	. . . . the non-solvent being organic
		2201/0547	. . . . the non-solvent being aqueous
		2203/00	Foams characterized by the expanding agent
		2203/02	. CO ₂ -releasing, e.g. NaHCO ₃ and citric acid
		2203/04	. N ₂ releasing, ex azodicarbonamide or nitroso compound
		2203/06	. CO ₂ , N ₂ or noble gases
		2203/08	. Supercritical fluid
		2203/10	. Water or water-releasing compounds
		2203/12	. Organic compounds only containing carbon, hydrogen and oxygen atoms, e.g. ketone or alcohol
		2203/14	. Saturated hydrocarbons, e.g. butane; Unspecified hydrocarbons
		2203/142	. . Halogenated saturated hydrocarbons, e.g. H ₃ C-CF ₃
		2203/144	. . . Perhalogenated saturated hydrocarbons, e.g. F ₃ C-CF ₃
		2203/146	. . Saturated hydrocarbons containing oxygen and halogen atoms, e.g. F ₃ C-O-CH ₂ -CH ₃
		2203/16	. Unsaturated hydrocarbons
		2203/162	. . Halogenated unsaturated hydrocarbons, e.g. H ₂ C=CF ₂

- 2203/164 . . . Perhalogenated unsaturated hydrocarbons, e.g. $F_2C=CF_2$
- 2203/166 . . Unsaturated hydrocarbons containing oxygen and halogen atoms, e.g. $F_3C-O-CH=CH_2$
- 2203/18 . Binary blends of expanding agents
- 2203/182 . . of physical blowing agents, e.g. acetone and butane

NOTE

The blowing agents should be specified by using codes [C08J 2203/06](#) - [C08J 2203/166](#).

- 2203/184 . . of chemical foaming agent and physical blowing agent, e.g. azodicarbonamide and fluorocarbon

NOTE

The expanding agents should be specified by using codes [C08J 2203/02](#) - [C08J 2203/166](#).

- 2203/20 . Ternary blends of expanding agents
- 2203/202 . . of physical blowing agents

NOTE

The blowing agents should be specified by using codes [C08J 2203/02](#) - [C08J 2203/166](#).

- 2203/204 . . of chemical foaming agent and physical blowing agents

NOTE

The expanding agents should be specified by using codes [C08J 2203/02](#) - [C08J 2203/166](#).

- 2203/22 . Expandable microspheres, e.g. Expancel®

2205/00 Foams characterised by their properties

- 2205/02 . the finished foam itself being a gel or a gel being temporarily formed when processing the foamable composition
- 2205/022 . . Hydrogel, i.e. a gel containing an aqueous composition
- 2205/024 . . Organogel, i.e. a gel containing an organic composition
- 2205/026 . . Aerogel, i.e. a supercritically dried gel
- 2205/028 . . Xerogel, i.e. an air dried gel
- 2205/04 . characterised by the foam pores
- 2205/042 . . Nanopores, i.e. the average diameter being smaller than 0,1 micrometer
- 2205/044 . . Micropores, i.e. average diameter being between 0,1 micrometer and 0,1 millimeter
- 2205/046 . . Unimodal pore distribution
- 2205/048 . . Bimodal pore distribution, e.g. micropores and nanopores coexisting in the same foam
- 2205/05 . . Open cells, i.e. more than 50% of the pores are open
- 2205/052 . . Closed cells, i.e. more than 50% of the pores are closed
- 2205/06 . Flexible foams
- 2205/08 . Semi-flexible foams
- 2205/10 . Rigid foams

2207/00 Foams characterised by their intended use

- 2207/02 . Adhesive
- 2207/04 . Aerosol, e.g. polyurethane foam spray
- 2207/06 . Electrical wire insulation
- 2207/10 . Medical applications, e.g. biocompatible scaffolds

- 2207/12 . Sanitary use, e.g. diapers, napkins or bandages

Characterizing the main polymer used in a working-up process**2300/00 Characterised by the use of unspecified polymers**

- 2300/10 . Polymers characterised by the presence of specified groups, e.g. terminal or pendant functional groups
 - 2300/102 . . containing halogen atoms
 - 2300/104 . . containing oxygen atoms
 - 2300/105 . . . containing carboxyl groups
 - 2300/106 . . containing nitrogen atoms
 - 2300/108 . . containing hydrolysable silane groups
- 2300/12 . Polymers characterised by physical features, e.g. anisotropy, viscosity or electrical conductivity
- 2300/14 . Water soluble or water swellable polymers, e.g. aqueous gels
- 2300/16 . Biodegradable polymers
- 2300/20 . Polymers characterized by their physical structure
- 2300/202 . . Dendritic macromolecules, e.g. dendrimers or hyperbranched polymers
- 2300/204 . . Supramolecular materials
- 2300/206 . . Star polymers
- 2300/208 . . Interpenetrating networks [IPN]
- 2300/21 . . Polyrotaxanes; Polycatenanes
- 2300/22 . Thermoplastic resins
- 2300/24 . Thermosetting resins
- 2300/26 . Elastomers
- 2300/30 . Polymeric waste or recycled polymer

2301/00 Characterised by the use of cellulose, modified cellulose or cellulose derivatives

- 2301/02 . Cellulose; Modified cellulose
- 2301/04 . Oxycellulose; Hydrocellulose
- 2301/06 . Cellulose hydrate
- 2301/08 . Cellulose derivatives
 - 2301/10 . . Esters of organic acids
 - 2301/12 . . . Cellulose acetate
 - 2301/14 . . Mixed esters
 - 2301/16 . . Esters of inorganic acids
 - 2301/18 . . . Cellulose nitrate
 - 2301/20 . . Esters of both organic acids and inorganic acids
- 2301/22 . . Cellulose xanthate
 - 2301/24 . . . Viscose
- 2301/26 . . Cellulose ethers
 - 2301/28 . . . Alkyl ethers
 - 2301/30 . . . Aryl ethers; Aralkyl ethers
- 2301/32 . . Cellulose ether-esters

2303/00 Characterised by the use of starch, amylose or amylopectin or of their derivatives or degradation products

- 2303/02 . Starch; Degradation products thereof, e.g. dextrin
- 2303/04 . Starch derivatives
 - 2303/06 . . Esters
 - 2303/08 . . Ethers
 - 2303/10 . . Oxidised starch
- 2303/12 . Amylose; Amylopectin; Degradation products thereof
 - 2303/14 . . Amylose derivatives; Amylopectin derivatives
 - 2303/16 . . Esters
 - 2303/18 . . Ethers
 - 2303/20 . . Oxidised amylose; Oxidised amylopectin

2305/00	Characterised by the use of polysaccharides or of their derivatives not provided for in groups C08J 2301/00 or C08J 2303/00	2323/28	. . by reaction with halogens or halogen-containing compounds (C08J 2323/32 takes precedence)
2305/02	. Dextran; Derivatives thereof	2323/30	. . by oxidation
2305/04	. Alginic acid; Derivatives thereof	2323/32	. . by reaction with phosphorus- or sulfur-containing compounds
2305/06	. Pectin; Derivatives thereof	2323/34	. . . by chlorosulfonation
2305/08	. Chitin; Chondroitin sulfate; Hyaluronic acid; Derivatives thereof	2323/36	. . by reaction with nitrogen-containing compounds, e.g. by nitration
2305/10	. Heparin; Derivatives thereof	2325/00	Characterised by the use 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; Derivatives of such polymers
2305/12	. Agar-agar; Derivatives thereof	2325/02	. Homopolymers or copolymers of hydrocarbons
2305/14	. Hemicellulose; Derivatives thereof	2325/04	. . Homopolymers or copolymers of styrene
2305/16	. Cyclodextrin; Derivatives thereof	2325/06	. . . Polystyrene
2307/00	Characterised by the use of natural rubber	2325/08	. . . Copolymers of styrene (C08J 2329/08 , C08J 2335/06 , C08J 2355/02 take precedence)
2307/02	. Latex	2325/10	. . . . with conjugated dienes
2309/00	Characterised by the use of homopolymers or copolymers of conjugated diene hydrocarbons	2325/12	. . . . with unsaturated nitriles
2309/02	. Copolymers with acrylonitrile	2325/14	. . . . with unsaturated esters
2309/04	. . Latex	2325/16	. . Homopolymers or copolymers of alkyl-substituted styrenes
2309/06	. Copolymers with styrene	2325/18	. Homopolymers or copolymers of aromatic monomers containing elements other than carbon and hydrogen
2309/08	. . Latex	2327/00	Characterised by the use 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; Derivatives of such polymers
2309/10	. Latex (C08J 2309/04 , C08J 2309/08 take precedence)	2327/02	. not modified by chemical after-treatment
2311/00	Characterised by the use of homopolymers or copolymers of chloroprene	2327/04	. . containing chlorine atoms
2311/02	. Latex	2327/06	. . . Homopolymers or copolymers of vinyl chloride
2313/00	Characterised by the use of rubbers containing carboxyl groups	2327/08	. . . Homopolymers or copolymers of vinylidene chloride
2313/02	. Latex	2327/10	. . containing bromine or iodine atoms
2315/00	Characterised by the use of rubber derivatives (C08J 2311/00, C08J 2313/00 takes precedence)	2327/12	. . containing fluorine atoms
2315/02	. Rubber derivatives containing halogen	2327/14	. . . Homopolymers or copolymers of vinyl fluoride
2317/00	Characterised by the use of reclaimed rubber	2327/16	. . . Homopolymers or copolymers of vinylidene fluoride
2319/00	Characterised by the use of rubbers not provided for in groups C08J 2307/00 - C08J 2317/00	2327/18	. . . Homopolymers or copolymers of tetrafluoroethylene
2319/02	. Latex	2327/20	. . . Homopolymers or copolymers of hexafluoropropene
2321/00	Characterised by the use of unspecified rubbers	2327/22	. modified by chemical after-treatment
2321/02	. Latex	2327/24	. . halogenated
2323/00	Characterised by the use of homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond; Derivatives of such polymers	2329/00	Characterised by the use 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; Hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic acids; Derivatives of such polymer
2323/02	. not modified by chemical after treatment	2329/02	. Homopolymers or copolymers of unsaturated alcohols (C08J 2329/14 takes precedence)
2323/04	. . Homopolymers or copolymers of ethene		
2323/06	. . . Polyethylene		
2323/08	. . . Copolymers of ethene (C08J 2323/16 takes precedence)		
2323/10	. . Homopolymers or copolymers of propene		
2323/12	. . . Polypropene		
2323/14	. . . Copolymers of propene (C08J 2323/16 takes precedence)		
2323/16	. . Ethene-propene or ethene-propene-diene copolymers		
2323/18	. . Homopolymers or copolymers of hydrocarbons having four or more carbon atoms		
2323/20	. . . having four to nine carbon atoms		
2323/22	. . . . Copolymers of isobutene; butyl rubber		
2323/24	. . . having ten or more carbon atoms		
2323/26	. modified by chemical after-treatment		

- 2329/04 . . Polyvinyl alcohol; Partially hydrolysed homopolymers or copolymers of esters of unsaturated alcohols with saturated carboxylic acids
- 2329/06 . . Copolymers of allyl alcohol
- 2329/08 . . . with vinyl aromatic monomers
- 2329/10 . Homopolymers or copolymers of unsaturated ethers ([C08J 2335/08 takes precedence](#))
- 2329/12 . Homopolymers or copolymers of unsaturated ketones
- 2329/14 . Homopolymers or copolymers of acetals or ketals obtained by polymerisation of unsaturated acetals or ketals or by after-treatment of polymers of unsaturated alcohols
- 2331/00 Characterised by the use of 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, or carbonic acid, or of a haloformic acid (of hydrolysed polymers [C08J 2329/00](#))**
- 2331/02 . Characterised by the use of homopolymers or copolymers of esters of monocarboxylic acids
- 2331/04 . . Homopolymers or copolymers of vinyl acetate
- 2331/06 . Homopolymers or copolymers of esters of polycarboxylic acids
- 2331/08 . . of phthalic acid
- 2333/00 Characterised by the use 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; Derivatives of such polymers**
- 2333/02 . Homopolymers or copolymers of acids; Metal or ammonium salts thereof
- 2333/04 . esters
- 2333/06 . . of esters containing only carbon, hydrogen, and oxygen, the oxygen atom being present only as part of the carboxyl radical
- 2333/08 . . . Homopolymers or copolymers of acrylic acid esters
- 2333/10 . . . Homopolymers or copolymers of methacrylic acid esters
- 2333/12 Homopolymers or copolymers of methyl methacrylate
- 2333/14 . . of esters containing halogen, nitrogen, sulfur, or oxygen atoms in addition to the carboxy oxygen
- 2333/16 . . . Homopolymers or copolymers of esters containing halogen atoms
- 2333/18 . Homopolymers or copolymers of nitriles
- 2333/20 . . Homopolymers or copolymers of acrylonitrile ([C08J 2355/02 takes precedence](#))
- 2333/22 . . Homopolymers or copolymers of nitriles containing four or more carbon atoms
- 2333/24 . Homopolymers or copolymers of amides or imides
- 2333/26 . . Homopolymers or copolymers of acrylamide or methacrylamide
- 2335/00 Characterised by the use 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; Derivatives of such polymers**
- 2335/02 . Characterised by the use of homopolymers or copolymers of esters ([C08J 2335/06](#), [C08J 2335/08 take precedence](#))
- 2335/04 . Homopolymers or copolymers of nitriles ([C08J 2335/06](#), [C08J 2335/08 take precedence](#))
- 2335/06 . Copolymers with vinyl aromatic monomers
- 2335/08 . Copolymers with vinyl ethers
- 2337/00 Characterised by the use 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 [C08J 2331/00](#); of cyclic anhydrides of unsaturated acids [C08J 2335/00](#)); Derivatives of such polymers**
- 2339/00 Characterised by the use 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; Derivatives of such polymers**
- 2339/02 . Homopolymers or copolymers of vinylamine
- 2339/04 . Homopolymers or copolymers of monomers containing heterocyclic rings having nitrogen as ring member
- 2339/06 . . Homopolymers or copolymers of N-vinyl-pyrrolidones
- 2339/08 . . Homopolymers or copolymers of vinyl-pyridine
- 2341/00 Characterised by the use 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; Derivatives of such polymers**
- 2343/00 Characterised by the use 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; Derivatives of such polymers (of metal salts, e.g. phenolates, alcoholates, see the parent compounds)**
- 2343/02 . Homopolymers or copolymers of monomers containing phosphorus
- 2343/04 . Homopolymers or copolymers of monomers containing silicon

2345/00	Characterised by the use 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; Derivatives of such polymers (of cyclic anhydrides or imides C08J 2335/00; of cyclic esters of polyfunctional acids C08J 2331/00)	2359/02	. Copolyoxymethylenes
2345/02	. of coumarone-indene polymers	2361/00	Characterised by the use of condensation polymers of aldehydes or ketones (with polyalcohols C08J 2359/00; with polynitriles C08J 2377/00); Derivatives of such polymers
2347/00	Characterised by the use 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; Derivatives of such polymers (C08J 2345/00 takes precedence; of conjugated diene rubbers C08J 2309/00 - C08J 2321/00)	2361/02	. Condensation polymers of aldehydes or ketones only
2349/00	Characterised by the use of homopolymers or copolymers of compounds having one or more carbon-to-carbon triple bonds; Derivatives of such polymers	2361/04	. Condensation polymers of aldehydes or ketones with phenols only
2351/00	Characterised by the use of graft polymers in which the grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds (for ABS polymers C08J 2355/02); Derivatives of such polymers	2361/06	. . of aldehydes with phenols
2351/02	. grafted on to polysaccharides	2361/08	. . . with monohydric phenols
2351/04	. grafted on to rubbers	2361/10	. . . . Phenol-formaldehyde condensates
2351/06	. grafted on to homopolymers or copolymers of aliphatic hydrocarbons containing only one carbon-to-carbon double bond	2361/12	. . . with polyhydric phenols
2351/08	. grafted on to macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds	2361/14	. . . Modified phenol-aldehyde condensates
2351/10	. grafted on to inorganic materials	2361/16	. . of ketones with phenols
2353/00	Characterised by the use of homopolymers or copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in groups C08J 2323/00 - C08J 2353/00	2361/18	. Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives only
2353/02	. of vinyl aromatic monomers and conjugated dienes	2361/20	. Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (with amino phenols C08J 2361/04)
2355/00	Characterised by the use of homopolymers or copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in groups C08J 2323/00 - C08J 2353/00	2361/22	. . of aldehydes with acyclic or carbocyclic compounds
2355/02	. Acrylonitrile-Butadiene-Styrene [ABS] polymers	2361/24	. . . with urea or thiourea
2355/04	. Polyadducts obtained by the diene synthesis	2361/26	. . of aldehydes with heterocyclic compounds
2357/00	Characterised by the use of unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds	2361/28	. . . with melamine
2357/02	. Copolymers of mineral oil hydrocarbons	2361/30	. . of aldehydes with heterocyclic and acyclic or carbocyclic compounds
2357/04	. Copolymers in which only the monomer in minority is defined	2361/32	. . Modified amine-aldehyde condensates
2357/06	. Homopolymers or copolymers containing elements other than carbon and hydrogen	2361/34	. Condensation polymers of aldehydes or ketones with monomers covered by at least two of the groups C08J 2361/04, C08J 2361/18, and C08J 2361/20
2357/08	. . containing halogen atoms	2363/00	Characterised by the use of epoxy resins; Derivatives of epoxy resins
2357/10	. . containing oxygen atoms	2363/02	. Polyglycidyl ethers of bis-phenols
2357/12	. . containing nitrogen atoms	2363/04	. Epoxynovolacs
2359/00	Characterised by the use of polyacetals containing polyoxymethylene sequences only	2363/06	. Triglycidylisocyanurates
		2363/08	. Epoxidised polymerised polyenes
		2363/10	. Epoxy resins modified by unsaturated compounds
		2365/00	Characterised by the use of macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain (C08J 2307/00 - C08J 2357/00, C08J 2361/00 take precedence); Derivatives of such polymers
		2365/02	. Polyphenylenes
		2365/04	. Polyxylylenes
		2367/00	Characterised by the use of polyesters obtained by reactions forming a carboxylic ester link in the main chain (of polyester-amides C08J 2377/12; of polyester-imides C08J 2379/08); Derivatives of such polymers
		2367/02	. Polyesters derived from dicarboxylic acids and dihydroxy compounds; (C08J 2367/06 takes precedence)
		2367/03	. . the dicarboxylic acids and dihydroxy compounds having the hydroxy and the carboxyl groups directly linked to aromatic rings
		2367/04	. Polyesters derived from hydroxy carboxylic acids, e.g. lactones (C08J 2367/06 takes precedence)
		2367/06	. Unsaturated polyesters

- 2367/07 . . having terminal carbon-to-carbon unsaturated bonds
- 2367/08 . Polyesters modified with higher fatty oils or their acids, or with resins or resin acids
- 2369/00 Characterised by the use of polycarbonates; Derivatives of polycarbonates**
- 2371/00 Characterised by the use of polyethers obtained by reactions forming an ether link in the main chain (of polyacetals [C08J 2359/00](#); of epoxy resins [C08J 2363/00](#); of polythioether-ethers [C08J 2381/02](#); of polyethersulfones [C08J 2381/06](#)); Derivatives of such polymers**
- 2371/02 . Polyalkylene oxides
- 2371/03 . . Polyepihalohydrins
- 2371/08 . Polyethers derived from hydroxy compounds or from their metallic derivatives ([C08J 2371/02 takes precedence](#))
- 2371/10 . . from phenols
- 2371/12 . . . Polyphenylene oxides
- 2371/14 . . Furfuryl alcohol polymers
- 2373/00 Characterised by the use of macromolecular compounds obtained by reactions forming a linkage containing oxygen or oxygen and carbon in the main chain, not provided for in groups [C08J 2359/00](#) - [C08J 2371/00](#); Derivatives of such polymers**
- 2373/02 . Polyanhydrides
- 2375/00 Characterised by the use of polyureas or polyurethanes; Derivatives of such polymers**
- 2375/02 . Polyureas
- 2375/04 . Polyurethanes
- 2375/06 . . from polyesters
- 2375/08 . . from polyethers
- 2375/10 . . from polyacetals
- 2375/12 . . from compounds containing nitrogen and active hydrogen, the nitrogen atom not being part of an isocyanate group
- 2375/14 . . Polyurethanes having carbon-to-carbon unsaturated bonds
- 2375/16 . . . having terminal carbon-to-carbon unsaturated bonds
- 2377/00 Characterised by the use of polyamides obtained by reactions forming a carboxylic amide link in the main chain (of polyhydrazides [C08J 2379/06](#); of polyamide-imides or polyamide acids [C08J 2379/08](#)); Derivatives of such polymers**
- 2377/02 . Polyamides derived from omega-amino carboxylic acids or from lactams thereof ([C08J 2377/10 takes precedence](#))
- 2377/04 . Polyamides derived from alpha-amino carboxylic acids ([C08J 2377/10 takes precedence](#))
- 2377/06 . Polyamides derived from polyamines and polycarboxylic acids ([C08J 2377/10 takes precedence](#))
- 2377/08 . . from polyamines and polymerised unsaturated fatty acids
- 2377/10 . Polyamides derived from aromatically bound amino and carboxyl groups of amino carboxylic acids or of polyamines and polycarboxylic acids
- 2377/12 . Polyester-amides
- 2379/00 Characterised by the use 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 [C08J 2361/00](#) - [C08J 2377/00](#)**
- 2379/02 . Polyamines
- 2379/04 . Polycondensates having nitrogen-containing heterocyclic rings in the main chain; Polyhydrazides; Polyamide acids or similar polyimide precursors
- 2379/06 . . Polyhydrazides; Polytriazoles; Polyamino-triazoles; Polyoxadiazoles
- 2379/08 . . Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors
- 2381/00 Characterised by the use 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; Polysulfones; Derivatives of such polymers**
- 2381/02 . Polythioethers; Polythioether-ethers
- 2381/04 . Polysulfides
- 2381/06 . Polysulfones; Polyethersulfones
- 2381/08 . Polysulfonates
- 2381/10 . Polysulfonamides; Polysulfonimides
- 2383/00 Characterised by the use 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; Derivatives of such polymers**
- 2383/02 . Polysilicates
- 2383/04 . Polysiloxanes
- 2383/05 . . containing silicon bound to hydrogen
- 2383/06 . . containing silicon bound to oxygen-containing groups ([C08J 2383/12 takes precedence](#))
- 2383/07 . . containing silicon bound to unsaturated aliphatic groups
- 2383/08 . . containing silicon bound to organic groups containing atoms other than carbon, hydrogen, and oxygen
- 2383/10 . Block- or graft-copolymers containing polysiloxane sequences ([obtained by polymerising a compound having a carbon-to-carbon double bond on to a polysiloxane \[C08J 2351/08\]\(#\), \[C08J 2353/00\]\(#\)](#))
- 2383/12 . . containing polyether sequences
- 2383/14 . in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms ([C08J 2383/10 takes precedence](#))
- 2383/16 . in which all the silicon atoms are connected by linkages other than oxygen atoms
- 2385/00 Characterised by the use of macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing atoms other than silicon, sulfur, nitrogen, oxygen, and carbon; Derivatives of such polymers**
- 2385/02 . containing phosphorus
- 2385/04 . containing boron

2387/00 Characterised by the use of unspecified macromolecular compounds, obtained otherwise than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds

2389/00 Characterised by the use of proteins; Derivatives thereof

- 2389/02 . Casein-aldehyde condensates
- 2389/04 . Products derived from waste materials, e.g. horn, hoof or hair
- 2389/06 . . derived from leather or skin

2391/00 Characterised by the use of oils, fats or waxes; Derivatives thereof

- 2391/02 . Vulcanised oils, e.g. factice
- 2391/04 . Linoxyn
- 2391/06 . Waxes
- 2391/08 . . Mineral waxes

2393/00 Characterised by the use of natural resins; Derivatives thereof (of polysaccharides [C08J 2301/00](#) - [C08J 2305/00](#); of natural rubber [C08J 2317/00](#))

- 2393/02 . Shellac
- 2393/04 . Rosin

2395/00 Bituminous materials, e.g. asphalt, tar or pitch

2397/00 Characterised by the use of lignin-containing materials (of polysaccharides [C08J 2301/00](#) - [C08J 2305/00](#))

- 2397/02 . Lignocellulosic material, e.g. wood, straw or bagasse

2399/00 Characterised by the use of natural macromolecular compounds or of derivatives thereof not provided for in groups [C08J 2301/00](#) - [C08J 2307/00](#) or [C08J 2389/00](#) - [C08J 2397/00](#)

Characterizing additional polymers used in a working-up process

2400/00 Characterised by the use of unspecified polymers

- 2400/10 . Polymers characterised by the presence of specified groups, e.g. terminal or pendant functional groups
- 2400/102 . . containing halogen atoms
- 2400/104 . . containing oxygen atoms
- 2400/105 . . . containing carboxyl groups
- 2400/106 . . containing nitrogen atoms
- 2400/108 . . containing hydrolysable silane groups
- 2400/12 . Polymers characterised by physical features, e.g. anisotropy, viscosity or electrical conductivity
- 2400/14 . Water soluble or water swellable polymers, e.g. aqueous gels
- 2400/16 . Biodegradable polymers
- 2400/20 . Polymers characterized by their physical structure
- 2400/202 . . Dendritic macromolecules, e.g. dendrimers or hyperbranched polymers
- 2400/204 . . Supramolecular materials
- 2400/206 . . Star polymers
- 2400/208 . . Interpenetrating networks [IPN]
- 2400/21 . . Polyrotaxanes; Polycatenanes
- 2400/22 . Thermoplastic resins
- 2400/24 . Thermosetting resins
- 2400/26 . Elastomers
- 2400/30 . Polymeric waste or recycled polymer

2401/00 Characterised by the use of cellulose, modified cellulose or cellulose derivatives

- 2401/02 . Cellulose; Modified cellulose
- 2401/04 . . Oxycellulose; Hydrocellulose
- 2401/06 . . Cellulose hydrate
- 2401/08 . Cellulose derivatives
- 2401/10 . . Esters of organic acids
- 2401/12 . . . Cellulose acetate
- 2401/14 . . Mixed esters
- 2401/16 . . Esters of inorganic acids
- 2401/18 . . . Cellulose nitrate
- 2401/20 . . Esters of both organic acids and inorganic acids
- 2401/22 . . Cellulose xanthate
- 2401/24 . . . Viscose
- 2401/26 . . Cellulose ethers
- 2401/28 . . . Alkyl ethers
- 2401/30 . . . Aryl ethers; Aralkyl ethers
- 2401/32 . . Cellulose ether-esters

2403/00 Characterised by the use of starch, amylose or amylopectin or of their derivatives or degradation products

- 2403/02 . Starch; Degradation products thereof, e.g. dextrin
- 2403/04 . Starch derivatives
- 2403/06 . . Esters
- 2403/08 . . Ethers
- 2403/10 . . Oxidised starch
- 2403/12 . Amylose; Amylopectin; Degradation products thereof
- 2403/14 . Amylose derivatives; Amylopectin derivatives
- 2403/16 . . Esters
- 2403/18 . . Ethers
- 2403/20 . . Oxidised amylose; Oxidised amylopectin

2405/00 Characterised by the use of polysaccharides or of their derivatives not provided for in groups [C08J 2401/00](#) or [C08J 2403/00](#)

- 2405/02 . Dextran; Derivatives thereof
- 2405/04 . Alginic acid; Derivatives thereof
- 2405/06 . Pectin; Derivatives thereof
- 2405/08 . Chitin; Chondroitin sulfate; Hyaluronic acid; Derivatives thereof
- 2405/10 . Heparin; Derivatives thereof
- 2405/12 . Agar-agar; Derivatives thereof
- 2405/14 . Hemicellulose; Derivatives thereof
- 2405/16 . Cyclodextrin; Derivatives thereof

2407/00 Characterised by the use of natural rubber

- 2407/02 . Latex

2409/00 Characterised by the use of homopolymers or copolymers of conjugated diene hydrocarbons

- 2409/02 . Copolymers with acrylonitrile
- 2409/04 . . Latex
- 2409/06 . Copolymers with styrene
- 2409/08 . . Latex
- 2409/10 . Latex ([C08J 2409/04](#), [C08J 2409/08](#) take precedence)

2411/00 Characterised by the use of homopolymers or copolymers of chloroprene

- 2411/02 . Latex

2413/00 Characterised by the use of rubbers containing carboxyl groups

- 2413/02 . Latex
- 2415/00 Characterised by the use of rubber derivatives**
([C08J 2411/00](#), [C08J 2413/00](#) takes precedence)
- 2415/02 . Rubber derivatives containing halogen
- 2417/00 Characterised by the use of reclaimed rubber**
- 2419/00 Characterised by the use of rubbers not provided for in groups [C08J 2407/00](#) - [C08J 2417/00](#)**
- 2419/02 . Latex
- 2421/00 Characterised by the use of unspecified rubbers**
- 2421/02 . Latex
- 2423/00 Characterised by the use of homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond; Derivatives of such polymers**
- 2423/02 . not modified by chemical after treatment
- 2423/04 . . Homopolymers or copolymers of ethene
- 2423/06 . . . Polyethylene
- 2423/08 . . . Copolymers of ethene ([C08J 2423/16](#) takes precedence)
- 2423/10 . . Homopolymers or copolymers of propene
- 2423/12 . . . Polypropene
- 2423/14 . . . Copolymers of propene ([C08J 2423/16](#) takes precedence)
- 2423/16 . . Ethene-propene or ethene-propene-diene copolymers
- 2423/18 . . Homopolymers or copolymers of hydrocarbons having four or more carbon atoms
- 2423/20 . . . having four to nine carbon atoms
- 2423/22 Copolymers of isobutene; butyl rubber
- 2423/24 . . . having ten or more carbon atoms
- 2423/26 . modified by chemical after-treatment
- 2423/28 . . by reaction with halogens or halogen-containing compounds ([C08J 2423/32](#) takes precedence)
- 2423/30 . . by oxidation
- 2423/32 . . by reaction with phosphorus- or sulfur-containing compounds
- 2423/34 . . . by chlorosulfonation
- 2423/36 . . by reaction with nitrogen-containing compounds, e.g. by nitration
- 2425/00 Characterised by the use 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; Derivatives of such polymers**
- 2425/02 . Homopolymers or copolymers of hydrocarbons
- 2425/04 . . Homopolymers or copolymers of styrene
- 2425/06 . . . Polystyrene
- 2425/08 . . . Copolymers of styrene ([C08J 2429/08](#), [C08J 2435/06](#), [C08J 2455/02](#) take precedence)
- 2425/10 with conjugated dienes
- 2425/12 with unsaturated nitriles
- 2425/14 . . . with unsaturated esters
- 2425/16 . . Homopolymers or copolymers of alkyl-substituted styrenes
- 2425/18 . Homopolymers or copolymers of aromatic monomers containing elements other than carbon and hydrogen
- 2427/00 Characterised by the use 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; Derivatives of such polymers**
- 2427/02 . not modified by chemical after-treatment
- 2427/04 . . containing chlorine atoms
- 2427/06 . . . Homopolymers or copolymers of vinyl chloride
- 2427/08 . . . Homopolymers or copolymers of vinylidene chloride
- 2427/10 . . containing bromine or iodine atoms
- 2427/12 . . containing fluorine atoms
- 2427/14 . . . Homopolymers or copolymers of vinyl fluoride
- 2427/16 . . . Homopolymers or copolymers of vinylidene fluoride
- 2427/18 . . . Homopolymers or copolymers of tetrafluoroethylene
- 2427/20 . . . Homopolymers or copolymers of hexafluoropropene
- 2427/22 . modified by chemical after-treatment
- 2427/24 . . halogenated
- 2429/00 Characterised by the use 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; Hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic acids; Derivatives of such polymer**
- 2429/02 . Homopolymers or copolymers of unsaturated alcohols ([C08J 2429/14](#) takes precedence)
- 2429/04 . . Polyvinyl alcohol; Partially hydrolysed homopolymers or copolymers of esters of unsaturated alcohols with saturated carboxylic acids
- 2429/06 . . Copolymers of allyl alcohol
- 2429/08 . . . with vinyl aromatic monomers
- 2429/10 . Homopolymers or copolymers of unsaturated ethers ([C08J 2435/08](#) takes precedence)
- 2429/12 . Homopolymers or copolymers of unsaturated ketones
- 2429/14 . Homopolymers or copolymers of acetals or ketals obtained by polymerisation of unsaturated acetals or ketals or by after-treatment of polymers of unsaturated alcohols
- 2431/00 Characterised by the use of 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, or carbonic acid, or of a haloformic acid (of hydrolysed polymers [C08J 2429/00](#))**
- 2431/02 . Characterised by the use of omopolymers or copolymers of esters of monocarboxylic acids
- 2431/04 . . Homopolymers or copolymers of vinyl acetate
- 2431/06 . Homopolymers or copolymers of esters of polycarboxylic acids
- 2431/08 . . of phthalic acid

- 2433/00** Characterised by the use 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; Derivatives of such polymers
- 2433/02 . Homopolymers or copolymers of acids; Metal or ammonium salts thereof
- 2433/04 . esters
- 2433/06 . . of esters containing only carbon, hydrogen, and oxygen, the oxygen atom being present only as part of the carboxyl radical
- 2433/08 . . . Homopolymers or copolymers of acrylic acid esters
- 2433/10 . . . Homopolymers or copolymers of methacrylic acid esters
- 2433/12 Homopolymers or copolymers of methyl methacrylate
- 2433/14 . . of esters containing halogen, nitrogen, sulfur, or oxygen atoms in addition to the carboxy oxygen
- 2433/16 . . . Homopolymers or copolymers of esters containing halogen atoms
- 2433/18 . Homopolymers or copolymers of nitriles
- 2433/20 . . Homopolymers or copolymers of acrylonitrile ([C08J 2455/02 takes precedence](#))
- 2433/22 . . Homopolymers or copolymers of nitriles containing four or more carbon atoms
- 2433/24 . Homopolymers or copolymers of amides or imides
- 2433/26 . . Homopolymers or copolymers of acrylamide or methacrylamide
- 2435/00** Characterised by the use 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; Derivatives of such polymers
- 2435/02 . Characterised by the use of homopolymers or copolymers of esters ([C08J 2435/06](#), [C08J 2435/08 take precedence](#))
- 2435/04 . Homopolymers or copolymers of nitriles ([C08J 2435/06](#), [C08J 2435/08 take precedence](#))
- 2435/06 . Copolymers with vinyl aromatic monomers
- 2435/08 . Copolymers with vinyl ethers
- 2437/00** Characterised by the use 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 [C08J 2431/00](#); of cyclic anhydrides of unsaturated acids [C08J 2435/00](#)); Derivatives of such polymers
- 2439/00** Characterised by the use 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; Derivatives of such polymers
- 2439/02 . Homopolymers or copolymers of vinylamine
- 2439/04 . Homopolymers or copolymers of monomers containing heterocyclic rings having nitrogen as ring member
- 2439/06 . . Homopolymers or copolymers of N-vinyl-pyrrolidones
- 2439/08 . . Homopolymers or copolymers of vinyl-pyridine
- 2441/00** Characterised by the use 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; Derivatives of such polymers
- 2443/00** Characterised by the use 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; Derivatives of such polymers (of metal salts, e.g. phenolates, alcoholates, see the parent compounds)
- 2443/02 . Homopolymers or copolymers of monomers containing phosphorus
- 2443/04 . Homopolymers or copolymers of monomers containing silicon
- 2445/00** Characterised by the use 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; Derivatives of such polymers (of cyclic anhydrides or imides [C08J 2435/00](#); of cyclic esters of polyfunctional acids [C08J 2431/00](#))
- 2445/02 . of coumarone-indene polymers
- 2447/00** Characterised by the use 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; Derivatives of such polymers ([C08J 2445/00 takes precedence](#); of conjugated diene rubbers [C08J 2409/00 - C08J 2421/00](#))
- 2449/00** Characterised by the use of homopolymers or copolymers of compounds having one or more carbon-to-carbon triple bonds; Derivatives of such polymers
- 2451/00** Characterised by the use of graft polymers in which the grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds (for ABS polymers [C08J 2455/02](#)); Derivatives of such polymers
- 2451/02 . grafted on to polysaccharides
- 2451/04 . grafted on to rubbers
- 2451/06 . grafted on to homopolymers or copolymers of aliphatic hydrocarbons containing only one carbon-to-carbon double bond
- 2451/08 . grafted on to macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
- 2451/10 . grafted on to inorganic materials

- 2453/00** Characterised by the use of homopolymers or copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in groups [C08J 2423/00](#) - [C08J 2453/00](#)
- 2453/02 . of vinyl aromatic monomers and conjugated dienes
- 2455/00** Characterised by the use of homopolymers or copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in groups [C08J 2423/00](#) - [C08J 2453/00](#)
- 2455/02 . Acrylonitrile-Butadiene-Styrene [ABS] polymers
- 2455/04 . Polyadducts obtained by the diene synthesis
- 2457/00** Characterised by the use of unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds
- 2457/02 . Copolymers of mineral oil hydrocarbons
- 2457/04 . Copolymers in which only the monomer in minority is defined
- 2457/06 . Homopolymers or copolymers containing elements other than carbon and hydrogen
- 2457/08 . . containing halogen atoms
- 2457/10 . . containing oxygen atoms
- 2457/12 . . containing nitrogen atoms
- 2459/00** Characterised by the use of polyacetals containing polyoxymethylene sequences only
- 2459/02 . Copolyoxymethylenes
- 2461/00** Characterised by the use of condensation polymers of aldehydes or ketones (with polyalcohols [C08J 2459/00](#); with polynitriles [C08J 2477/00](#)); Derivatives of such polymers
- 2461/02 . Condensation polymers of aldehydes or ketones only
- 2461/04 . Condensation polymers of aldehydes or ketones with phenols only
- 2461/06 . . of aldehydes with phenols
- 2461/08 . . . with monohydric phenols
- 2461/10 Phenol-formaldehyde condensates
- 2461/12 . . . with polyhydric phenols
- 2461/14 . . . Modified phenol-aldehyde condensates
- 2461/16 . . of ketones with phenols
- 2461/18 . Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives only
- 2461/20 . Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (with amino phenols [C08J 2461/04](#))
- 2461/22 . . of aldehydes with acyclic or carbocyclic compounds
- 2461/24 . . . with urea or thiourea
- 2461/26 . . of aldehydes with heterocyclic compounds
- 2461/28 . . . with melamine
- 2461/30 . . of aldehydes with heterocyclic and acyclic or carbocyclic compounds
- 2461/32 . . Modified amine-aldehyde condensates
- 2461/34 . Condensation polymers of aldehydes or ketones with monomers covered by at least two of the groups [C08J 2461/04](#), [C08J 2461/18](#), and [C08J 2461/20](#)
- 2463/00** Characterised by the use of epoxy resins; Derivatives of epoxy resins
- 2463/02 . Polyglycidyl ethers of bis-phenols
- 2463/04 . Epoxynovolacs
- 2463/06 . Triglycidylisocyanurates
- 2463/08 . Epoxidised polymerised polyenes
- 2463/10 . Epoxy resins modified by unsaturated compounds
- 2465/00** Characterised by the use of macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain ([C08J 2407/00](#) - [C08J 2457/00](#), [C08J 2461/00](#) take precedence); Derivatives of such polymers
- 2465/02 . Polyphenylenes
- 2465/04 . Polyxylylenes
- 2467/00** Characterised by the use of polyesters obtained by reactions forming a carboxylic ester link in the main chain (of polyester-amides [C08J 2477/12](#); of polyester-imides [C08J 2479/08](#)); Derivatives of such polymers
- 2467/02 . Polyesters derived from dicarboxylic acids and dihydroxy compounds ([C08J 2467/06](#) takes precedence)
- 2467/03 . . the dicarboxylic acids and dihydroxy compounds having the hydroxy and the carboxyl groups directly linked to aromatic rings
- 2467/04 . Polyesters derived from hydroxy carboxylic acids, e.g. lactones ([C08J 2467/06](#) takes precedence)
- 2467/06 . Unsaturated polyesters
- 2467/07 . . having terminal carbon-to-carbon unsaturated bonds
- 2467/08 . Polyesters modified with higher fatty oils or their acids, or with resins or resin acids
- 2469/00** Characterised by the use of polycarbonates; Derivatives of polycarbonates
- 2471/00** Characterised by the use of polyethers obtained by reactions forming an ether link in the main chain (of polyacetals [C08J 2459/00](#); of epoxy resins [C08J 2463/00](#); of polythioether-ethers [C08J 2481/02](#); of polyethersulfones [C08J 2481/06](#)); Derivatives of such polymers
- 2471/02 . Polyalkylene oxides
- 2471/03 . . Polyepihalohydrins
- 2471/08 . Polyethers derived from hydroxy compounds or from their metallic derivatives ([C08J 2471/02](#) takes precedence)
- 2471/10 . . from phenols
- 2471/12 . . . Polyphenylene oxides
- 2471/14 . . Furfuryl alcohol polymers
- 2473/00** Characterised by the use of macromolecular compounds obtained by reactions forming a linkage containing oxygen or oxygen and carbon in the main chain, not provided for in groups [C08J 2459/00](#) - [C08J 2471/00](#); Derivatives of such polymers
- 2473/02 . Polyanhydrides
- 2475/00** Characterised by the use of polyureas or polyurethanes; Derivatives of such polymers
- 2475/02 . Polyureas
- 2475/04 . Polyurethanes
- 2475/06 . . from polyesters
- 2475/08 . . from polyethers
- 2475/10 . . from polyacetals

- 2475/12 . . from compounds containing nitrogen and active hydrogen, the nitrogen atom not being part of an isocyanate group
- 2475/14 . . Polyurethanes having carbon-to-carbon unsaturated bonds
- 2475/16 . . . having terminal carbon-to-carbon unsaturated bonds
- 2477/00 Characterised by the use of polyamides obtained by reactions forming a carboxylic amide link in the main chain (of polyhydrazides [C08J 2479/06](#); of polyamide-imides or polyamide acids [C08J 2479/08](#)); Derivatives of such polymers**
- 2477/02 . Polyamides derived from omega-amino carboxylic acids or from lactams thereof ([C08J 2477/10 takes precedence](#))
- 2477/04 . Polyamides derived from alpha-amino carboxylic acids ([C08J 2477/10 takes precedence](#))
- 2477/06 . Polyamides derived from polyamines and polycarboxylic acids ([C08J 2477/10 takes precedence](#))
- 2477/08 . . from polyamines and polymerised unsaturated fatty acids
- 2477/10 . Polyamides derived from aromatically bound amino and carboxyl groups of amino carboxylic acids or of polyamines and polycarboxylic acids
- 2477/12 . Polyester-amides
- 2479/00 Characterised by the use 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 [C08J 2461/00](#) - [C08J 2477/00](#)**
- 2479/02 . Polyamines
- 2479/04 . Polycondensates having nitrogen-containing heterocyclic rings in the main chain; Polyhydrazides; Polyamide acids or similar polyimide precursors
- 2479/06 . . Polyhydrazides; Polytriazoles; Polyamino-triazoles; Polyoxadiazoles
- 2479/08 . . Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors
- 2481/00 Characterised by the use 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; Polysulfones; Derivatives of such polymers**
- 2481/02 . Polythioethers; Polythioether-ethers
- 2481/04 . Polysulfides
- 2481/06 . Polysulfones; Polyethersulfones
- 2481/08 . Polysulfonates
- 2481/10 . Polysulfonamides; Polysulfonimides
- 2483/00 Characterised by the use 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; Derivatives of such polymers**
- 2483/02 . Polysilicates
- 2483/04 . Polysiloxanes
- 2483/05 . . containing silicon bound to hydrogen
- 2483/06 . . containing silicon bound to oxygen-containing groups ([C08J 2483/12 takes precedence](#))
- 2483/07 . . containing silicon bound to unsaturated aliphatic groups
- 2483/08 . . containing silicon bound to organic groups containing atoms other than carbon, hydrogen, and oxygen
- 2483/10 . Block- or graft-copolymers containing polysiloxane sequences ([obtained by polymerising a compound having a carbon-to-carbon double bond on to a polysiloxane \[C08J 2451/08\]\(#\), \[C08J 2453/00\]\(#\)](#))
- 2483/12 . . containing polyether sequences
- 2483/14 . in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms ([C08J 2483/10 takes precedence](#))
- 2483/16 . in which all the silicon atoms are connected by linkages other than oxygen atoms
- 2485/00 Characterised by the use of macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing atoms other than silicon, sulfur, nitrogen, oxygen, and carbon; Derivatives of such polymers**
- 2485/02 . containing phosphorus
- 2485/04 . containing boron
- 2487/00 Characterised by the use of unspecified macromolecular compounds, obtained otherwise than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds**
- 2489/00 Characterised by the use of proteins; Derivatives thereof**
- 2489/02 . Casein-aldehyde condensates
- 2489/04 . Products derived from waste materials, e.g. horn, hoof or hair
- 2489/06 . . derived from leather or skin
- 2491/00 Characterised by the use of oils, fats or waxes; Derivatives thereof**
- 2491/02 . Vulcanised oils, e.g. factice
- 2491/04 . Linoxyn
- 2491/06 . Waxes
- 2491/08 . . Mineral waxes
- 2493/00 Characterised by the use of natural resins; Derivatives thereof (of polysaccharides [C08J 2401/00](#) - [C08J 2405/00](#); of natural rubber [C08J 2417/00](#))**
- 2493/02 . Shellac
- 2493/04 . Rosin
- 2495/00 Bituminous materials, e.g. asphalt, tar or pitch**
- 2497/00 Characterised by the use of lignin-containing materials (of polysaccharides [C08J 2401/00](#) - [C08J 2405/00](#))**
- 2497/02 . Lignocellulosic material, e.g. wood, straw or bagasse
- 2499/00 Characterised by the use of natural macromolecular compounds or of derivatives thereof not provided for in groups [C08J 2401/00](#) - [C08J 2407/00](#) or [C08J 2489/00](#) - [C08J 2497/00](#)**