CPC  COOPERATIVE PATENT CLASSIFICATION

C  CHEMISTRY; METALLURGY

(CHEMISTRY omitted)

CHEMISTRY

C08  ORGANIC MACROMOLECULAR COMPOUNDS; THEIR PREPARATION OR CHEMICAL WORKING-UP; COMPOSITIONS BASED THEREON

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.

3. 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 2375/06
   • Coating of a polyethylene substrate with a polyurethane coating: C08J 7/0427 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

4. 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 7/0427: the polymeric substrate to be coated.
   • C08J 9/0061: the polymeric component in majority in a multicomponents foamable blend.

5. 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 2433/30.

6. 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 7/0427: 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 5/16 covered by C10N 2250/18
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.

### Processes of treating or compounding macromolecular substances

- **3/00**  
  - [Processes for mixing polymers](#)
  - **3/02**  
    - Making solutions, dispersions or lattices by other methods than by solution, emulsion or suspension polymerisation techniques
  - **3/03**  
    - in aqueous media
  - **3/05**  
    - from solid polymers
  - **3/07**  
    - from polymer solutions
  - **3/075**  
    - Macromolecular gels
  - **3/09**  
    - in organic liquids
  - **3/091**  
    - [characterised by the chemical constitution of the organic liquid](#)
  - **3/092**  
    - [Hydrocarbons](#)
  - **3/093**  
    - [Halogenated hydrocarbons](#)
  - **3/095**  
    - [Oxygen containing compounds](#)
  - **3/096**  
    - [Nitrogen containing compounds](#)
  - **3/097**  
    - [Sulfur containing compounds](#)
  - **3/098**  
    - [Other compounds](#)
  - **3/11**  
    - from solid polymers
  - **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]}
  - **3/122**  
    - [Pulverisation by spraying](#)
  - **3/124**  
    - Treatment for improving the free-flowing characteristics (agglomerates, granulates or microbeads A61K 9/16; process or devices for granulating material, e.g. non-sticking properties B01J 2/30; auxiliary treatment of particle B29B 9/16)]
  - **3/126**  
    - Polymer particles coated by polymer, e.g. core shell structures (process or devices for granulating material, e.g. coating B01J 2/003)]
  - **3/128**  
    - Polymer particles coated by inorganic and organic compounds (macromolecules C08J 3/126]
  - **3/14**  
    - by precipitation from solutions [C08J 3/122 takes precedence]
  - **3/16**  
    - by coagulating dispersions [C08J 3/122 takes precedence; treatment of polymer emulsion, e.g. coagulation C08F 6/22)]
  - **3/18**  
    - Plasticising macromolecular compounds (plasticisers C08K]
  - **3/20**  
    - Compounding polymers with additives, e.g. colouring
  - **3/201**  
    - [Pre-melted polymers](#)
  - **3/203**  
    - [Solid polymers with solid and/or liquid additives](#)
  - **3/205**  
    - in the presence of a [continuous] liquid phase
  - **3/2053**  
    - [the additives only being premixed with a liquid phase](#)
  - **3/2056**  
    - [the polymer being pre-melted](#)
  - **3/21**  
    - the polymer being premixed with a liquid phase
  - **3/212**  
    - [and solid additives](#)
  - **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](#)

### Crosslinking, e.g. vulcanising, of macromolecules

- **3/24**  
  - [Crosslinking, e.g. vulcanising, of macromolecules (mechanical aspects B29C 35/00; crosslinking agents C08K ; crosslinking aspects not classifyable in C08G, C08E, C08K; compounding C08J 3/201)]
  - **3/241**  
    - [Preventing premature crosslinking by physical separation of components, e.g. encapsulation (of other ingredients C08K 9/00)]
  - **3/242**  
    - Applying crosslinking or accelerating agent onto compounding ingredients such as fillers, reinforcements
  - **3/243**  
    - [Two or more independent types of crosslinking for one or more polymers](#)
  - **3/244**  
    - [Stepwise homogeneous crosslinking of one polymer with one crosslinking system, e.g. partial curing](#)
  - **3/245**  
    - [Differential crosslinking of one polymer with one crosslinking type, e.g. surface crosslinking](#)
  - **3/246**  
    - [Intercrosslinking of at least two polymers](#)
  - **3/247**  
    - [Heating methods](#)
  - **3/248**  
    - [Measuring crosslinking reactions](#)
  - **3/26**  
    - of latex
  - **3/28**  
    - Treatment by wave energy or particle radiation

### Manufacture of articles or shaped materials containing macromolecular substances

- **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)]
  - **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)]
  - **5/02**  
    - Direct processing of dispersions, e.g. latex, to articles
  - **5/04**  
    - Reinforcing macromolecular compounds with loose or coherent fibrous material (after-treatment of threads during manufacture D01F; finishing of textiles D06M)]
  - **5/041**  
    - [with metal fibres](#)
  - **5/042**  
    - [with carbon fibres](#)
  - **5/043**  
    - [with glass fibres](#)
  - **5/044**  
    - [with other inorganic fibres](#)
  - **5/045**  
    - [with vegetable or animal fibrous material](#)
  - **5/046**  
    - [with synthetic macromolecular fibrous material](#)

### NOTE

[Note 2 following the title of subclass C08J may be applied]
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) }
5/121 . . {by heating }
5/122 . . {using low molecular chemically inert solvents, swelling or softening agents }
5/124 . . {using adhesives based on a macromolecular component (adhesive compositions per se C09J 4/00, C09J 101/00 - C09J 201/00) }
5/125 . . . {Adhesives in organic diluents }
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 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. SO\(_2\)F, 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. SO\(_2\)H, are considered as such.
4. Ion-exchanging fibrous fabrics are considered as heterogeneous membranes and are classified in C08J 5/2225; 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 prepolymer 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

WARNING
Group C08J 7/04 is impacted by reclassification into groups C08J 7/043, C08J 7/044, C08J 7/046, C08J 7/048, C08J 7/05, C08J 7/052, C08J 7/054, and C08J 7/056. All groups listed in this Warning should be considered in order to perform a complete search.
7/042 . . . {with two or more layers, where at least one layer of a composition contains a polymer binder }
7/0423 . . . {with at least one layer of inorganic material and at least one layer of a composition containing a polymer binder }
7/0427 . . . {with only one layer of a composition containing a polymer binder (with more layers C08J 7/042) }

C08J
. . . Improving the adhesiveness of the coatings per se, e.g. forming primers (adhesives in the form of films or foils characterised by the primer layers between the polymer carriers and the adhesives C09J 7/50)

**WARNING**

Group C08J 7/043 is incomplete pending reclassification of documents from group C08J 7/04.

Groups C08J 7/04 and C08J 7/043 should be considered in order to perform a complete search.

. . . Forming conductive coatings; Forming coatings having anti-static properties

**WARNING**

Group C08J 7/044 is incomplete pending reclassification of documents from group C08J 7/04.

Groups C08J 7/04 and C08J 7/044 should be considered in order to perform a complete search.

. . . Forming abrasion-resistant coatings; Forming surface-hardening coatings

**WARNING**

Group C08J 7/046 is incomplete pending reclassification of documents from group C08J 7/04.

Groups C08J 7/04 and C08J 7/046 should be considered in order to perform a complete search.

. . . Forming gas barrier coatings

**WARNING**

Group C08J 7/048 is incomplete pending reclassification of documents from group C08J 7/04.

Groups C08J 7/04 and C08J 7/048 should be considered in order to perform a complete search.

. . . Forming flame retardant coatings or fire resistant coatings

**WARNING**

Group C08J 7/05 is incomplete pending reclassification of documents from group C08J 7/04.

Groups C08J 7/04 and C08J 7/05 should be considered in order to perform a complete search.

. . . Forming heat-sealable coatings

**WARNING**

Group C08J 7/052 is incomplete pending reclassification of documents from group C08J 7/04.

Groups C08J 7/04 and C08J 7/052 should be considered in order to perform a complete search.

. . . Forming anti-misting or drip-proofing coatings

**WARNING**

Group C08J 7/054 is incomplete pending reclassification of documents from group C08J 7/04.

Groups C08J 7/04 and C08J 7/054 should be considered in order to perform a complete search.

. . . Forming hydrophilic coatings

**WARNING**

Group C08J 7/056 is incomplete pending reclassification of documents from group C08J 7/04.

Groups C08J 7/04 and C08J 7/056 should be considered in order to perform a complete search.

. . . with compositions not containing macromolecular substances

7/06 . . . (Low-molecular-weight organic substances, e.g. absorption of additives in the surface of the article)

7/08 . . . (Heat treatment)

7/12 . . . Chemical modification

7/13 . . . (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))

7/14 . . . with acids, their salts or anhydrides

7/16 . . . with polimerisable 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))
After-treatment of expandable particles; Forming foamed products

Forming foamed products

- added blowing agent
- blowing agent
- blowing gases generated by a previously preparation or modification of macromolecules monomers or modifying agents during the
- developing carbon dioxide
- developing nitrogen, the blowing agent being a compound containing a nitrogen-to-nitrogen bond
- [Agents modifying the decomposition temperature]
- [Azo-compounds]
- [Azodicarbonamide]
- [Hydrazines; Hydrazides; Semicarbazides; Semicarbazones; Hydrazones; Derivatives thereof]
- [containing sulfur]
- [Azides]
- [Nitroso compounds]
- [in a heterocyclic ring containing at least one carbon atom]
- by a physical blowing agent
- [Hydrogen, oxygen, CO₂, nitrogen or noble gases]
- [Water, e.g. hydrated salts]
- [Mixtures of organic and inorganic blowing agents]
- organic
- [Hydrocarbons]
- [Compounds containing oxygen but no halogen atom]
- [Halogen containing compounds]
- [containing carbon, halogen and hydrogen only]
- {only chlorine as halogen atoms}
- {only fluorine as halogen atoms}
- {containing carbon and halogen atoms only}
- {perfluorinated}
- [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:
- bulk expandable includes also expanding, pre-expanded or expanded

- Making expandable particles
- by impregnating polymer particles with the blowing agent
- by suspension polymerisation in the presence of the blowing agent
- After-treatment of expandable particles; Forming foamed products
- Surface treatment
- 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 macroreticulated polymers]
9/30 . . . by mixing gases into liquid compositions or plastosils, e.g. frothing with air
9/32 . . . from compositions containing microballoons, e.g. syntactic foams (making microballoons B01J 13/02)
9/33 . . . Agglomeration of 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 (polimerisation processes involving purification or recycling of waste polymers or their depolymerisation products C08B, C08C, C08F, 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)
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 polyanides C07D 201/12; depolymerisation of rubber C08C 19/008))
11/105 . . . [by treatment with enzymes]
11/12 . . . by dry-heat treatment only (destructive distillation of carboaceous materials for production of gas, coke, tar or similar matters C10B)
11/14 . . . by treatment with steam or water
Foams characterised by the foaming process

2201/00 . . . characterised by mechanical pre- or post-treatments

2201/022 . . . premixing or pre-blending a part of the components of a foamy composition, e.g. premixing the polyol with the blowing agent, surfactant and catalyst and only adding the isocyanate at the time of foaming

2201/024 . . . Preparation or use of a blowing agent concentrate, i.e. masterbatch in a foamy composition

2201/026 . . . Crosslinking before of after foaming

2201/028 . . . Foaming by preparing of a high internal phase emulsion

2201/03 . . . Extrusion of the foamy blend

2201/032 . . . Impregnation of a formed object with a gas (expandable particles, e.g. polystyrene beads C08J 9/18)

2201/034 . . . Post-expanding of foam beads or sheets

2201/036 . . . Use of an organic, non-polymeric compound to impregnate, bind or coat a foam, e.g. fatty acid ester

2201/038 . . . Use of an inorganic compound to impregnate, bind or coat a foam, e.g. waterglass

2201/04 . . . characterised by the elimination of a liquid or solid component, e.g. precipitation, leaching out, evaporation

NOTE
When the elimination is performed in several steps, only the first step is indicated using codes C08J 2201/042 - C08J 2201/0547

2201/042 . . . Elimination of an organic solid phase

2201/0422 . . . containing oxygen atoms, e.g. saccharose

2201/0424 . . . containing halogen, nitrogen, sulphur or phosphorus atoms

2201/044 . . . Elimination of an inorganic solid phase

2201/0442 . . . the inorganic phase being a metal, its oxide or hydroxide

2201/0444 . . . Salts

2201/0446 . . . Elimination of NaCl only

2201/046 . . . Elimination of a polymeric phase

2201/0462 . . . using organic solvents

2201/0464 . . . using water or inorganic fluids

2201/048 . . . Elimination of a frozen liquid phase

2201/0482 . . . the liquid phase being organic

2201/0484 . . . the liquid phase being aqueous

2201/05 . . . Elimination by evaporation or heat degradation of a liquid phase

2201/0502 . . . the liquid phase being organic
Characterising the main polymer used in a working-up process

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 foambale 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; Alkaryl 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
2305/02 . . Dextran; Derivatives thereof
2305/04 . . Alginate acid; Derivatives thereof
2305/06 . . Pectin; Derivatives thereof
2305/08 . . Chitin; Chondroitin sulfate; Hyaluronic acid; Derivatives thereof
2305/10 . . Heparin; Derivatives thereof
2305/12 . . Agar-agar; Derivatives thereof
2305/14 . . Hemicellulose; Derivatives thereof
2305/16 . . Cyclodextrin; Derivatives thereof

2307/00 Characterised by the use of natural rubber
2307/02 . . Latex

2309/00 Characterised by the use of homopolymers or copolymers of conjugated diene hydrocarbons
2309/02 . . Copolymers with acrylonitrile
2309/04 . . . Latex
2309/06 . . Copolymers with styrene
2309/08 . . . Latex
2309/10 . . . Latex (C08J 2309/04, C08J 2309/08 take precedence)

2311/00 Characterised by the use of homopolymers or copolymers of chloroprene
Characterizing the main polymer used in a working-up process

2311/02.. Latex

2313/00 Characterised by the use of rubbers containing carboxyl groups

2313/02.. Latex

2315/00 Characterised by the use of rubber derivatives (C08J 2311/00, C08J 2313/00 takes precedence)

2315/02.. Rubber derivatives containing halogen

2317/00 Characterised by the use of reclaimed rubber

2319/00 Characterised by the use of rubbers not provided for in groups C08J 2307/00 - C08J 2317/00

2319/02.. Latex

2321/00 Characterised by the use of unspecified rubbers

2321/02.. Latex

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

2323/02.. not modified by chemical after treatment

2323/04.. Homopolymers or copolymers of ethene

2323/06.. Polyethene

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

2323/28.. by reaction with halogens or halogen-containing compounds (C08J 2323/32 takes precedence)

2323/30.. by oxidation

2323/32.. by reaction with phosphorus- or sulfur-containing compounds

2323/34.. by chlorosulfonation

2323/36.. by reaction with nitrogen-containing compounds, e.g. by nitration

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

2325/02.. Homopolymers or copolymers of hydrocarbons

2325/04.. Homopolymers or copolymers of styrene

2325/06.. Polystyrene

2325/08.. Copolymers of styrene (C08J 2329/08, C08J 2335/06, C08J 2335/02 take precedence)

2325/10.. with conjugated dienes

2325/12.. with unsaturated nitriles

2325/14.. with unsaturated esters

2325/16.. Homopolymers or copolymers of alkylo-substituted styrenes

2325/18.. Homopolymers or copolymers of aromatic monomers containing elements other than carbon and hydrogen

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

2327/02.. not modified by chemical after-treatment

2327/04.. containing chlorine atoms

2327/06.. Homopolymers or copolymers of vinyl chloride

2327/08.. Homopolymers or copolymers of vinylidene chloride

2327/10.. containing bromine or iodine atoms

2327/12.. containing fluorine atoms

2327/14.. Homopolymers or copolymers of vinyl fluoride

2327/16.. Homopolymers or copolymers of vinylidene fluoride

2327/18.. Homopolymers or copolymers of tetrafluoroethylene

2327/20.. Homopolymers or copolymers of hexafluoropropene

2327/22.. modified by chemical after-treatment

2327/24.. halogenated

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, aldehyde, ketonic, acetal, or ketal radical; Hydrolysed polymers of esters of unsaturated acids with saturated carboxylic acids; Derivatives of such polymer

2329/02.. Homopolymers or copolymers of unsaturated alcohols (C08J 2329/14 takes precedence)

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 acetics or ketals obtained by polymerisation of unsaturated acetics 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 carboxonic 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
Characterizing the main polymer used in a working-up process

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 at least 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)

2345/02 . of coumarone-indene 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)

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

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

2351/02 . grafted on to polysaccharides

2351/04 . grafted on to rubbers
Characterizing the main polymer used in a working-up process

2351/06 . grafted on to homopolymers or copolymers of aliphatic hydrocarbons containing only one carbon-to-carbon double bond

2351/08 . grafted on to macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds

2351/10 . grafted on to inorganic materials

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

2353/02 . of vinyl aromatic monomers and conjugated dienes

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

2355/02 . Acrylonitrile-Butadiene-Styrene [ABS] polymers

2355/04 . Polyadducts obtained by the diene synthesis

2357/00 Characterised by the use of unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds

2357/02 . Copolymers of mineral oil hydrocarbons

2357/04 . Copolymers in which only the monomer in minority is defined

2357/06 . Homopolymers or copolymers containing elements other than carbon and hydrogen

2357/08 . containing halogen atoms

2357/10 . containing oxygen atoms

2357/12 . containing nitrogen atoms

2359/00 Characterised by the use of polyacetals containing polyoxymethylene sequences only

2359/02 . Copolyoxymethylene

2361/00 Characterised by the use of condensation polymers of aldehydes or ketones (with polyalcohols C08J 2359/00; with polyacrylates C08J 2373/00); Derivatives of such polymers

2361/02 . Condensation polymers of aldehydes or ketones only

2361/04 . Condensation polymers of aldehydes or ketones with phenols only

2361/06 . of aldehydes with phenols

2361/08 . with monohydric phenols

2361/10 . Phenol-formaldehyde condensates

2361/12 . with polyhydric phenols

2361/14 . Modified phenol-aldehyde condensates

2361/16 . of ketones with phenols

2361/18 . Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives only

2361/20 . Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (with amino phenols C08J 2361/04)

2361/22 . of aldehydes with acyclic or carbocyclic compounds

2361/24 . with urea or thiourea

2361/26 . of aldehydes with heterocyclic compounds

2361/28 . with melamine

2361/30 . of aldehydes with heterocyclic and acyclic or carbocyclic compounds

2361/32 . Modified amine-aldehyde condensates

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

2363/00 Characterised by the use of epoxy resins; Derivatives of epoxy resins

2363/02 . Polyglycidyl ethers of bis-phenols

2363/04 . Epoxy novolacs

2363/06 . Triglycidylisocyanurates

2363/08 . Epoxidised polymerised polyenes

2363/10 . Epoxies 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 . Polysulphones

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 . Polysters 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 polyesters obtained by reactions forming an ether link in the main chain (of polycetals C08J 2359/00; of polyethylene-ethers C08J 2361/02; of polyethersulfones C08J 2381/06); Derivatives of such polymers

2371/02 . Polyalkylene oxides

2371/03 . Polyepihalohydrins

2371/08 . Polyesters 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
Characterizing the main polymer used in a working-up process

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 polyacetics
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 polyanimes and polycarboxylic acids (C08J 2377/10 takes precedence)
2377/08 . . . from polyanimes and polymerised unsaturated fatty acids
2377/10 . Polyanimes derived from aromatically bound amino and carboxyl groups of amino carboxylic acids or of polyanimes 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 . Polyanimes
2379/04 . Polycondensates having nitrogen-containing heterocyclic rings in the main chain; Polyhydrazides; Polyamide acids or similar polyimide precursors
2379/06 . . . Polyhydrazides; Polytetrazoles; Polyanimotetrazoles; Polyoxadiazoles
2379/08 . . . Polyanimes; 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; Polysulfonomides

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 skin
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)
Characterizing the main polymer used in a working-up process

- Lignocellulosic material, e.g. wood, straw or bagasse

Characterised by the use of natural macromolecular compounds or of derivatives thereof not provided for in groups C08J 2389/00 - C08J 2397/00

Characterizing additional polymers used in a working-up process

- Polymers characterised by the presence of specified groups, e.g. terminal or pendant functional groups
- Polymers characterized by their physical features, e.g. anisotropy, viscosity or electrical conductivity
- Water soluble or water swellable polymers, e.g. aqueous gels

Characterised by the use of unspecified rubbers

- Dextran; Derivatives thereof
- Algicin acid; Derivatives thereof
- Pectin; Derivatives thereof
- Chinin; Chondroitin sulfate; Hyaluronic acid; Derivatives thereof
- Heparin; Derivatives thereof
- Agar-agar; Derivatives thereof
- Hemicellulose; Derivatives thereof
- Cyclodextrin; Derivatives thereof

Characterised by the use of natural rubber

- Latex

Characterised by the use of homopolymers or copolymers of conjugated diene hydrocarbons

- Copolymers with acrylonitrile
- Copolymers with styrene
- Latex

Characterised by the use of rubber derivatives

- Rubber derivatives containing halogen

Characterised by the use of reclaimed rubber

Characterised by the use of rubbers not provided for in groups C08J 2407/00 - C08J 2417/00

Characterised by the use of unspecified rubbers

- Latex

Characterised by the use of homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond; Derivatives of such polymers

- not modified by chemical after treatment

Characterised by the use of homopolymers or copolymers of propene

- Polypropene

Characterised by the use of homopolymers or copolymers of propene

- Polypropene

Characterised by the presence of specified unspecified polymers

- Oxycellulose; Hydrocellulose
- Cellulose hydrate
- Cellulose derivatives
- Cellulose acetate
- Mixed esters
- Cellulose nitrate
- Esters of both organic acids and inorganic acids
- Cellulose xanthate
- Viscose
- Cellulose ethers
- Alkyl ethers
- Aryl ethers; Aralkyl ethers
- Cellulose ether-esters

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

- Amylose; Amylopectin; Degradation products thereof
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 acetal or ketals obtained by polymerisation of unsaturated acetales 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 a carboxylic acid, or of a haloformic acid (of hydrolysed polymers C08J 2429/00)

2431/02  . Characterised by the use of homopolymers 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

2433/22  . modified by chemical after-treatment

2433/24  . halogenated

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 carboxylic 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

<table>
<thead>
<tr>
<th>Path</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>2425/00</td>
<td>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 carboxylic ring; Derivatives of such polymers</td>
</tr>
<tr>
<td>2425/02</td>
<td>Homopolymers or copolymers of hydrocarbons</td>
</tr>
<tr>
<td>2425/04</td>
<td>Homopolymers or copolymers of styrene</td>
</tr>
<tr>
<td>2425/06</td>
<td>Polystyrene</td>
</tr>
<tr>
<td>2425/08</td>
<td>Copolymers of styrene (C08J 2429/08, C08J 2435/06, C08J 2455/02 take precedence)</td>
</tr>
<tr>
<td>2427/00</td>
<td>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</td>
</tr>
<tr>
<td>2427/02</td>
<td>not modified by chemical after-treatment</td>
</tr>
<tr>
<td>2427/04</td>
<td>containing chlorine atoms</td>
</tr>
<tr>
<td>2427/06</td>
<td>Homopolymers or copolymers of vinyl chloride</td>
</tr>
<tr>
<td>2427/08</td>
<td>Homopolymers or copolymers of vinylidene chloride</td>
</tr>
<tr>
<td>2427/10</td>
<td>containing bromine or iodine atoms</td>
</tr>
<tr>
<td>2427/12</td>
<td>containing fluorine atoms</td>
</tr>
<tr>
<td>2427/14</td>
<td>Homopolymers or copolymers of vinyl fluoride</td>
</tr>
<tr>
<td>2427/16</td>
<td>Homopolymers or copolymers of vinylidene fluoride</td>
</tr>
<tr>
<td>2427/18</td>
<td>Homopolymers or copolymers of tetrafluoroethylene</td>
</tr>
<tr>
<td>2427/20</td>
<td>Homopolymers or copolymers of hexafluoropropene</td>
</tr>
<tr>
<td>2427/22</td>
<td>modified by chemical after-treatment</td>
</tr>
<tr>
<td>2427/24</td>
<td>halogenated</td>
</tr>
</tbody>
</table>

CPC - 2020.02
Characterising additional polymers used in a working-up process

- Homopolymers or copolymers of acrylic nitrile (C08J 2455/02)
- Homopolymers or copolymers of nitriles containing four or more carbon atoms
- Homopolymers or copolymers of amides or imides
- Homopolymers or copolymers of acrylamide or methacrylamide

Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each containing one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical, and containing at least one other aliphatic radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Derivatives of such polymers

Homopolymers or copolymers of esters (C08J 2435/08), Homopolymers or copolymers of nitriles (C08J 2435/06, C08J 2435/08), Copolymers with vinyl aromatic monomers, Copolymers with vinyl ethers

Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each containing one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing nitrogen; Derivatives of such polymers

Homopolymers or copolymers of vinylamines, Homopolymers or copolymers of monomers containing heterocyclic rings having nitrogen as ring member

Homopolymers or copolymers of N-vinylpyrrolidones, Homopolymers or copolymers of vinyl-pyridine

Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each containing 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

Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each containing 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, alcolholates, see the parent compounds)

Homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having only one carbon-to-carbon double bond, and containing at least one other aliphatic radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Derivatives of such polymers

Homopolymers or copolymers of esters (C08J 2435/08), Homopolymers or copolymers of nitriles (C08J 2435/06, C08J 2435/08), Copolymers with vinyl aromatic monomers, Copolymers with vinyl ethers

Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each containing 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

Homopolymers or copolymers of vinylamines, Homopolymers or copolymers of monomers containing heterocyclic rings having oxygen as ring member

Homopolymers or copolymers of N-vinylpyrrolidones, Homopolymers or copolymers of vinyl-pyridine

Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each containing 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, alcolholates, see the parent compounds)

Homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having only one carbon-to-carbon double bond, and containing at least one other aliphatic radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Derivatives of such polymers

Homopolymers or copolymers of esters (C08J 2435/08), Homopolymers or copolymers of nitriles (C08J 2435/06, C08J 2435/08), Copolymers with vinyl aromatic monomers, Copolymers with vinyl ethers

Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each containing one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing nitrogen; Derivatives of such polymers

Homopolymers or copolymers of vinylamines, Homopolymers or copolymers of monomers containing heterocyclic rings having nitrogen as ring member

Homopolymers or copolymers of N-vinylpyrrolidones, Homopolymers or copolymers of vinyl-pyridine

Characterised by the use of homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each containing 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, alcolholates, see the parent compounds)
Characterizing additional polymers used in a working-up process

2457/12  . . containing nitrogen atoms

2459/00  Characterised by the use of polyacets containing polyoxyxylene sequences only

2459/02  . Copolyoxyxylolanes

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 carboxyclic 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 carboxyclic 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  . Epoxyxylolanes

2463/06  . Triglycidylisocyanurates

2463/08  . Epoxidised polymerised polynes

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  . Polyxylylenes

2465/04  . Polysxylylenes

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 2479/06); 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 polyacets 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

2471/06  . . Polyeiphaholhydrins

2471/08  . Polyesters derived from hydrox 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  . Polyanyhydrides

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 polycetals

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 carboxyl 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 polyamides and polycarboxylic acids (C08J 2477/10 takes precedence)

2477/08  . . from polyamides and polymerised unsaturated fatty acids
Characterizing additional polymers used in a working-up process  C08J

Polyamides derived from aromatically bound amino and carboxyl groups of amino carboxylic acids or of polyamines and polycarboxylic acids

Polyester-amides

Polyamines

Polycondensates having nitrogen-containing heterocyclic rings in the main chain; Polyhydrazides; Polyamide acids or similar polyimide precursors

Polyhydrazides; Polytriazoles; Polyamino-triazoles; Polyoxadiazoles

Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors

Polythioethers; Polythioether-ethers

Polysulfides

Polysulfones; Polychestersulfones

Polysulfonates

Polysulfonimides

Polythioethers; Polythioether-ethers

Polysulfides

Polysulfones; Polychestersulfones

Polysulfonates

Polysulfonimides

Polythioethers; Polythioether-ethers

Polysulfides

Polysulfones; Polychestersulfones

Polysulfonates

Polysulfonimides

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)

Polyether sequences

in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms (C08J 2483/10 takes precedence)

in which all the silicon atoms are connected by linkages other than oxygen atoms

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

Characterised by the use of proteins; Derivatives thereof

Vulcanised oils, e.g. factice

Linoxyn

Waxes

Mineral waxes

Characterised by the use of natural resins; Derivatives thereof (of polysaccharides C08J 2401/00 - C08J 2405/00; of natural rubber C08J 2417/00)

Shellac

Rosin

Bituminous materials, e.g. asphalt, tar or pitch

Characterised by the use of lignin-containing materials (of polysaccharides C08J 2401/00 - C08J 2405/00)

Lignocellulosic material, e.g. wood, straw or bagasse

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