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)

C08G  MACROMOLECULAR COMPOUNDS OBTAINED OTHERWISE THAN BY REACTIONS ONLY INVOLVING UNSATURATED CARBON-TO-CARBON BONDS

NOTES
1. In this subclass, group C08G 18/00 takes precedence over the other groups. A further classification is given if the polymers are obtained by reactions forming specific linkages for which an appropriate group is provided.
2. Within each main group of this subclass, in the absence of an indication to the contrary, classification is made in the last appropriate place.
3. In groups C08G 61/00 - C08G 79/00, in the absence of an indication to the contrary, macromolecular compounds obtained by reactions forming two different linkages in the main chain are classified only according to the linkage present in excess.
4. This subclass covers also compositions based on monomers which from macromolecular compounds classifiable in this subclass. In this subclass:
   a. if the monomers are defined, classification is made in groups C08G 2/00 - C08G 79/00, C08G 83/00 according to the polymer to be formed;
   b. if the monomers are defined in a way that a composition cannot be classified within one main group of this subclass, the composition is classified in group C08G 85/00;
   c. if the compounding ingredients are of interest per se, classification is also made in subclass C08K.

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:
   C08G 14/067, C08G 14/073, C08G 14/09 covered by C08G 14/06
   C08G 59/16, C08G 59/17 covered by C08G 59/14
   C08G 63/49 covered by C08G 63/48
   C08G 65/28 covered by C08G 65/26
   C08G 73/04 covered by C08G 73/02
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.

2/00  Addition polymers of aldehydes or cyclic oligomers thereof or of ketones; Addition copolymers thereof with less than 50 molar percent of other substances
   2/02  . Polymerisation initiated by wave energy or by particle radiation
   2/04  . Polymerisation by using compounds which act upon the molecular weight, e.g. chain-transferring agents
   2/06  . Catalysts (Catalysts in general B01J)
   2/08  . Polymerisation of formaldehyde
   2/10  . Polymerisation of cyclic oligomers of formaldehyde
   2/12  . Polymerisation of acetaldehyde or cyclic oligomers thereof
   2/14  . Polymerisation of single aldehydes not provided for in groups C08G 2/08, C08G 2/12
   2/16  . Polymerisation of single ketones
   2/18  . Copolymerisation of aldehydes or ketones
   2/20  . . with other aldehydes or ketones
   2/22  . . with epoxy compounds
   2/24  . . with acetics

2/26  . . with compounds containing carbon-to-carbon unsaturation
   2/28  . . Post-polymerisation treatments
   2/30  . Chemical modification by after-treatment
   2/32  . . by esterification
   2/34  . . by etherification
   2/36  . . by depolymerisation
   2/38  . . Block or graft polymers prepared by polymerisation of aldehydes or ketones on to macromolecular compounds

4/00  Condensation polymers of aldehydes or ketones with polyalcohols; Addition polymers of heterocyclic oxygen compounds containing in the ring at least once the grouping —O—C—O— (of cyclic oligomers of aldehydes C08G 2/00)

6/00  Condensation polymers of aldehydes or ketones only
   6/02  . of aldehydes with ketones
8/00 Condensation polymers of aldehydes or ketones with phenols only

8/02 . . of ketones
8/04 . . of aldehydes
8/06 . . of furfural
8/08 . . of formaldehyde, e.g. of formaldehyde formed in situ
8/10 . . with phenol
8/12 . . with monohydric phenols having only one hydrocarbon substituent ortho on para to the OH group, e.g. p-tert.-butyl phenol
8/14 . . with halogenated phenols
8/16 . . with amino- or nitrophenols
8/18 . . with phenols substituted by carboxylic or sulfonic acid groups
8/20 . . with polyhydric phenols
8/22 . . Resorcinol
8/24 . . with mixtures of two or more phenols which are not covered by only one of the groups C08G 8/10 - C08G 8/20
8/26 . . from mixtures of aldehydes and ketones
8/28 . . Chemically modified polycondensates
8/30 . . by unsaturated compounds, e.g. terpenes
8/32 . . by organic acids or derivatives thereof, e.g. fatty oils
8/34 . . by natural resins or resin acids, e.g. rosin
8/36 . . by etherifying
8/38 . . Block or graft polymers prepared by polycondensation of aldehydes or ketones onto macromolecular compounds

10/00 Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or halogenated aromatic hydrocarbons only

10/02 . . of aldehydes
10/04 . . Chemically-modified polycondensates
10/06 . . Block or graft polymers prepared by polycondensation of aldehydes or ketones onto macromolecular compounds

12/00 Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (aminophenols C08G 8/16)

12/02 . . of aldehydes
12/04 . . with acyclic or carboxylic compounds
12/043 . . . [with at least two compounds covered by more than one of the groups C08G 12/06 - C08G 12/24]
12/046 . . . [one being urea or thiourea]
12/06 . . . Amines
12/08 . . . aromatic
12/10 . . . with acyclic compounds having the moiety X=C(—N—)2 in which X is O, S or —N
12/12 . . . Ureas; Thioureas
12/14 . . . Dicyandiamides; Dicyandiamidines; Guanidines; Biguanidines; Biuret; Semicarbazides
12/16 . . . . Dicyandiamides
12/18 . . . with cyanamide
12/20 . . . with urethanes or thiourethanes
12/22 . . . with carboxylic acid amides (reaction of polyamides with aldehydes C08G 69/50)
12/24 . . . with sulfonic acid amides
12/26 . . . with heterocyclic compounds
12/263 . . . [with at least two compounds covered by more than one of the groups C08G 12/28 - C08G 12/32]
12/266 . . . [one being melamine]
12/28 . . . with substituted diazines, diazoles or triazoles
12/30 . . . with substituted triazines
12/32 . . . Melamines
12/34 . . . and acrylic or carboxylic compounds
12/36 . . . Ureas; Thioureas
12/38 . . . . and melamines
12/40 . . Chemically modified polycondensates
12/42 . . . by etherifying
12/421 . . . . [of polycondensates based on acyclic or carboxylic compounds]
12/422 . . . . [based on urea or thiourea]
12/424 . . . . [of polycondensates based on heterocyclic compounds]
12/425 . . . . [based on triazines]
12/427 . . . . [Melamine]
12/428 . . . . [of polycondensates based on heterocyclic and acyclic or carboxylic compounds]
12/44 . . . by etherifying
12/46 . . Block or graft polymers prepared by polycrystallization of aldehydes or ketones on to macromolecular compounds

14/00 Condensation polymers of aldehydes or ketones with two or more other monomers covered by at least two of the groups C08G 8/00 - C08G 12/00

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

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

16/02 . . of aldehydes
16/0206 . . . [with inorganic compounds]
16/0212 . . . with acyclic or carboxylic organic compounds
16/0218 . . . [containing atoms other than carbon and hydrogen]
16/0225 . . . . [containing oxygen]
16/0231 . . . . [containing nitrogen]
16/0237 . . . . [containing sulfur]
16/0243 . . . . [containing phosphorus]
16/025 . . . [with heterocyclic organic compounds]
16/0256 . . . [containing oxygen in the ring]
16/0262 . . . . [Furfuryl alcohol]
16/0268 . . . . [containing nitrogen in the ring]
16/0275 . . . . [containing sulfur in the ring]
16/0281 . . . . [containing phosphorus in the ring]
16/0287 . . . . [with organometallic or metal-containing organic compounds]
16/0293 . . . . [with natural products, oils, bitumens, residues]
16/04 . . Chemically modified polycondensates
16/06 . Block or graft polymers prepared by polycondensation of aldehydes or ketones on to macromolecular compounds

18/00 Polymeric products of isocyanates or isothiocyanates (preparatory processes of porous or cellular materials, in which the monomers or catalysts are not specific C08J)

18/003 . [with epoxy compounds having no active hydrogen (with epoxy resins containing active hydrogen C08G 18/58)]

18/006 . [with aldehydes]

18/02 . of isocyanates or isothiocyanates only

18/022 . [the polymeric products containing isocyanurate groups]

18/025 . [the polymeric products containing carbodiimide groups]

18/027 . [the polymeric products containing urethodione groups]

18/04 . with vinyl compounds

18/06 . with compounds having active hydrogen

18/08 . Processes

18/0804 . . {Manufacture of polymers containing ionic or ionogenic groups}

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

18/0809 . . . {containing cationic or cationogenic groups}

18/0814 . . . . . {containing ammonium groups or groups forming them}

18/0819 . . . . . {containing anionic or anionogenic groups}

18/0823 . . . . . {containing carboxylate salt groups or groups forming them}

18/0828 . . . . . {containing sulfonate groups or groups forming them}

18/0833 . . . . . {containing cationic or anionic groups together with anionic or anionogenic groups}

18/0838 . . . . . {Manufacture of polymers in the presence of non-reactive compounds (preparation of compositions C08G 18/2805)}

18/0842 . . . . . {in the presence of liquid diluents (C08G 18/0804 takes precedence)}

18/0847 . . . . . {in the presence of solvents for the polymers}

18/0852 . . . . . {the solvents being organic}

18/0857 . . . . . {the solvent being a polyl}

18/0861 . . . . . {in the presence of a dispersing phase for the polymers or a phase dispersed in the polymers}

18/0866 . . . . . {the dispersing or dispersed phase being an aqueous medium}

18/0871 . . . . . {the dispersing or dispersed phase being organic}

18/0876 . . . . . {the dispersing or dispersed phase being a polyl}

18/088 . . . . . {Removal of water or carbon dioxide from the reaction mixture or reaction components}

18/0885 . . . . . {using additives, e.g. absorbing agents}

18/089 . . . . . {Reaction retarding agents}

18/0895 . . . . . {Manufacture of polymers by continuous processes (C08G 18/0838 takes precedence)}

NOTES

1. After the symbols C08G 18/10 and C08G 18/12 and separated by a “,” sign, are indicated the reactive components of a second or following step by one of the symbols C08G 18/2805, C08G 18/30 - C08G 18/38, C08G 18/40 - C08G 18/64 without subnotations, C08G 18/65 - C08G 18/66, C08G 18/70 - C08G 18/80.

2. After the symbols C08G 18/10 and C08G 18/12 and separated by a “,” sign are indicated the oligomerisation of isocyanate- or isothiocyanate groups in the prepolymer or in the added reactive components involving reaction of at least a part of the isocyanate- or isothiocyanate groups with each other in the reaction mixture by the symbols C08G 18/02 or C08G 18/09 respectively or by subnotations thereof.

18/09 . . . . . {Manufacture of polymers containing oligomeric isocyanates or isothiocyanates involving reaction of a part of the isocyanate or isothiocyanate groups with each other in the reaction mixture (use of preformed oligomers C08G 18/79)}

18/092 . . . . . {oligomerisation to isocyanurate groups}

18/095 . . . . . {oligomerisation to carbodiimide or urethane groups}

18/097 . . . . . {oligomerisation to urethodione groups}

18/10 . . . Prepolymer processes involving reaction of isocyanates or isothiocyanates with compounds having active hydrogen in a first reaction step (C08G 18/0838 takes precedence); masked polysiocyanates C08G 18/80)

18/12 . . . . . using two or more compounds having active hydrogen in the first polymerisation step

18/14 . . . . . {Manufacture of cellular products}

18/16 . . . . . Catalysts (catalysts in general B01J)

18/161 . . . . . {containing two or more components to be covered by at least two of the groups C08G 18/16, C08G 18/18 or C08G 18/22}

18/163 . . . . . {covered by C08G 18/18 and C08G 18/22}

18/165 . . . . . {covered by C08G 18/18 and C08G 18/24}

18/166 . . . . . {Catalysts not provided for in the groups C08G 18/18 - C08G 18/26}

18/168 . . . . . {Organic compounds}

18/18 . . . containing secondary or tertiary amines or salts thereof

18/1808 . . . . . {having alkylene polyamine groups}

18/1816 . . . . . {having carbocyclic groups}

18/1825 . . . . . {having hydroxy or primary amino groups}

18/1833 . . . . . {having ether, acetal, or orthoester groups}

18/1841 . . . . . {having carbonyl groups which may be linked to one or more nitrogen or oxygen atoms}

18/185 . . . . . {having cyano groups}

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

NOTE

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

18/2805 . . . . . [Compounds having only one group containing active hydrogen (vinylpolymers having terminal groups containing active hydrogen C08G 18/62)]
18/281 . . . . . [Monocarboxylic acid compounds]
18/2815 . . . . . [Monohydroxy compounds]
18/282 . . . . . [Alkanols, cycloalkanols or arylalkanols including terpenealcohols]
18/2825 . . . . . [having at least 6 carbon atoms]
18/283 . . . . . [Compounds containing ether groups, e.g. oxyalkylated monohydroxy groups]
18/2835 . . . . . [having less than 5 ether groups]
18/284 . . . . . [Compounds containing ester groups, e.g. oxyalkylated monocarboxylic acids]
18/2845 . . . . . [Monohydroxy epoxy compounds]
18/285 . . . . . [Nitrogen containing compounds]
18/2855 . . . . . [Lactams]
18/286 . . . . . [Oximes]
18/2865 . . . . . [Compounds having only one primary or secondary amino group; Ammonia]
18/287 . . . . . [Amine compounds]
18/2875 . . . . . [Monohydroxy compounds containing tertiary amino groups]
18/288 . . . . . [Compounds containing at least one heteroatom other than oxygen or nitrogen]
18/2885 . . . . . [containing halogen atoms]
18/289 . . . . . [containing silicon]
18/2895 . . . . . [Compounds containing active methylene groups]
18/30 . . . . . Low-molecular-weight compounds
18/302 . . . . . [Water]
18/305 . . . . . [creating amino end groups]
18/307 . . . . . [Atmospheric humidity]
18/32 . . . . . Polyhydroxy compounds; Polyamines; Hydroxamines
18/3203 . . . . . [Polyhydroxy compounds]
18/3206 . . . . . [Aliphatic]
18/3209 . . . . . [Aliphatic aldehyde condensates and hydrogenation products thereof]
18/3212 . . . . . [containing cycloaliphatic groups]
18/3215 . . . . . [containing aromatic groups or benzoxquinone groups]
18/3218 . . . . . [containing cyclic groups having at least one oxygen atom in the ring]
18/3221 . . . . . [hydroxylated esters of carboxylic acids other than higher fatty acids]
18/3225 . . . . . [Polyamines]
18/3228 . . . . . [acyclic]
18/3231 . . . . . [Hydrazine or derivatives thereof]
18/3234 . . . . . [cycloaliphatic]
18/3237 . . . . . [aromatic (C08G 18/3234 takes precedence)]
18/324 . . . . . [containing only one aromatic ring]
18/3243 . . . . . [containing two or more aromatic rings]
18/3246 . . . . . [heterocyclic, the heteroatom being oxygen or nitrogen in the form of an amino group]
18/325 . . . . . [containing secondary or tertiary amino groups (C08G 18/3228, C08G 18/3234, C08G 18/3246 take precedence)]
18/3253 . . . . . [being in latent form]
18/3256 . . . . . [Reaction products of polyamines with aldehydes or ketones]
18/3259 . . . . . [Reaction products of polyamines with inorganic or organic acids or derivatives thereof other than metallic salts]
18/3262 . . . . . [with carboxylic acids or derivatives thereof]
18/3265 . . . . . . . . . {with carbondioxide or
sulfurdioxide}
18/3268 . . . . . . . . . {Salt complexes of polyamines}
18/3271 . . . . . . . . . {Hydroxamines}
18/3275 . . . . . . . . . {containing two hydroxy groups}
18/3278 . . . . . . . . . {containing at least three hydroxy groups}
18/3281 . . . . . . . . . {containing three hydroxy groups}
18/3284 . . . . . . . . . {containing four hydroxy groups}
18/3287 . . . . . . . . . {containing cycloaliphatic groups}
18/329 . . . . . . . . . {containing aromatic groups}
18/3293 . . . . . . . . . {containing heterocyclic groups}
18/3296 . . . . . . . . . {being in latent form}
18/34 . . . . . . . . . Carboxylic acids; Esters thereof with
monohydroxyl compounds
18/341 . . . . . . . . . {Dicarboxylic acids, esters of
polycarboxylic acids containing two
carboxylic acid groups}
18/343 . . . . . . . . . {Polycarboxylic acids having at least three
carboxylic acid groups}
18/345 . . . . . . . . . {having three carboxylic acid groups}
18/346 . . . . . . . . . {having four carboxylic acid groups}
18/348 . . . . . . . . . {Hydroxycarboxylic acids}
18/36 . . . . . . . . . Hydroxylated esters of higher fatty acids
18/38 . . . . . . . . . having heteroatoms other than oxygen
(C08G 18/32 takes precedence)
18/3802 . . . . . . . . . {having halogens}
18/3804 . . . . . . . . . {Polyhydroxy compounds}
18/3806 . . . . . . . . . {having chlorine and/or bromine
atoms}
18/3808 . . . . . . . . . {having chlorine atoms}
18/381 . . . . . . . . . {having bromine atoms}
18/3812 . . . . . . . . . {having fluorine atoms}
18/3814 . . . . . . . . . {Polyamines}
18/3817 . . . . . . . . . {Hydroxylated esters of higher fatty
acids}
18/3819 . . . . . . . . . {having nitrogen}
18/3821 . . . . . . . . . {Carboxylic acids; Esters thereof with
monohydroxyl compounds}
18/3823 . . . . . . . . . {containing -N-C=O groups}
18/3825 . . . . . . . . . {containing amide groups
(C08G 18/32 takes precedence)}
18/3827 . . . . . . . . . {Bicyclic amide acetals and
derivatives thereof}
18/3829 . . . . . . . . . {containing ureum groups}
18/3831 . . . . . . . . . {containing urethane groups}
18/3834 . . . . . . . . . {containing hydrazide or semi-
carbazide groups}
18/3836 . . . . . . . . . {containing azo groups}
18/3838 . . . . . . . . . {containing cyano groups}
18/384 . . . . . . . . . {containing nitro groups}
18/3842 . . . . . . . . . {containing heterocyclic rings having at
least one nitrogen atom in the ring}
18/3844 . . . . . . . . . {containing one nitrogen atom in the
ring}
18/3846 . . . . . . . . . {containing imide groups
(C08G 18/32 takes precedence)}
18/3848 . . . . . . . . . {containing two nitrogen atoms in the
ring}
18/3851 . . . . . . . . . {containing three nitrogen atoms in the
ring}
18/3853 . . . . . . . . . {containing cyanurate and/or
isocyanurate groups}
18/3855 . . . . . . . . . {having sulfur}
18/3857 . . . . . . . . . {having nitrogen in addition to sulfur}
18/3859 . . . . . . . . . {containing -N=C=S groups}
18/3861 . . . . . . . . . {containing sulfonamide and/or
sulfonylamidazole groups}
18/3863 . . . . . . . . . {containing groups having sulfur atoms
between two carbon atoms, the sulfur
atoms being directly linked to carbon
atoms or other sulfur atoms}
18/3865 . . . . . . . . . {containing groups having one sulfur
atom between two carbon atoms}
18/3868 . . . . . . . . . {the sulfur atom belonging to a
sulfide group}
18/387 . . . . . . . . . {in addition to a perfluoroalkyl
group}
18/3872 . . . . . . . . . {the sulfur atom belonging to a
sulfoxide or sulfone group}
18/3874 . . . . . . . . . {containing heterocyclic rings having at
least one sulfur atom in the ring}
18/3876 . . . . . . . . . {containing mercapto groups}
18/3878 . . . . . . . . . {having phosphorus}
18/388 . . . . . . . . . {having phosphorus bound to carbon
and/or to hydrogen}
18/3882 . . . . . . . . . {having phosphorus bound to oxygen
only}
18/3885 . . . . . . . . . {Phosphate compounds}
18/3887 . . . . . . . . . {Phosphite compounds}
18/3889 . . . . . . . . . {having nitrogen in addition to
phosphorus}
18/3891 . . . . . . . . . {having sulfur in addition to
phosphorus}
18/3893 . . . . . . . . . {containing silicon}
18/3895 . . . . . . . . . {Inorganic compounds, e.g. aqueous
alcalimetalasilicate solutions; Organic
derivatives thereof containing no direct
carbon-silicon bonds}
18/3897 . . . . . . . . . {containing heteroatoms other than
oxogen, halogens, nitrogen, sulfur, phosphorus or silicon}
18/40 . . . . . . . . . High-molecular-weight compounds
(C08G 18/2805 takes precedence)
18/4009 . . . . . . . . . [Two or more macromolecular compounds
not provided for in one single group of
groups C08G 18/42 - C08G 18/64]
18/4018 . . . . . . . . . {Mixtures of compounds of group
C08G 18/42 with compounds of group
C08G 18/48}
18/4027 . . . . . . . . . {Mixtures of compounds of group
C08G 18/54 with other macromolecular
compounds}
18/4036 . . . . . . . . . {Mixtures of compounds of group
C08G 18/56 with other macromolecular
compounds}
18/4045 . . . . . . . . . {Mixtures of compounds of group
C08G 18/58 with other macromolecular
compounds}
18/4054 . . . . . . . . . {Mixtures of compounds of group
C08G 18/60 with other macromolecular
compounds}
18/4063 . . . . . . . . . {Mixtures of compounds of group
C08G 18/62 with other macromolecular
compounds}
Polycondensates having carboxylic or carboxylic ester groups in the main chain (C08G 18/44 takes precedence)

Polyethers containing oxygen in the form of ether groups (C08G 18/44 takes precedence)

Polycarbonates

Polyesters of different physical or chemical nature (C08G 18/44 takes precedence)

Polyols containing at least one ether group and polycarboxylic acids or ester forming derivatives thereof and hydroxy compounds

Polyetherpolyols containing at least three oxygen atoms

Hydroxy compounds

Polycondensates or hydrogenation products thereof having at least two hydroxy groups

Mixtures of polyetherdiols with other macromolecular compounds

Addition products of unsaturated polyesters with amino compounds

Polyamides containing at least two aromatic rings and polycarboxylic acids or ester forming derivatives thereof and hydroxy compounds

Polyamides containing at least two aromatic rings and polycarboxylic acids or ester forming derivatives thereof and polycarboxylic acids

Polyamides containing at least two aromatic rings and polycarboxylic acids or ester forming derivatives thereof and hydroxy compounds

Polymers of unsaturated polyesters containing at least one ether group and polycarboxylic acids

Polymers of unsaturated polyesters containing at least one ether group and polycarboxylic acids

Polymers of unsaturated polyesters containing at least one ether group and polycarboxylic acids

Polymers of unsaturated polyesters containing at least one ether group and polycarboxylic acids

Polymers of unsaturated polyesters containing at least one ether group and polycarboxylic acids

Polymers of unsaturated polyesters containing at least one ether group and polycarboxylic acids
{Mixtures of polyethers containing at least one polyether containing nitrogen}

{Polymers containing two hydroxy groups (C08G 18/4833 - C08G 18/5096 take precedence)}

{Polymers containing at least three hydroxy groups (C08G 18/4833 - C08G 18/5096 take precedence)}

{Polymers containing oxyethylene units}

{and other oxyalkylene units}

{containing oxyethylene end groups}

{containing oxypolypropylene or higher oxyalkylene end groups}

{containing mixed oxypolypropylene or oxyethylene-higher oxyalkylene end groups}

{Polymers containing oxyalkylene groups having four carbon atoms in the alkylene group}

{Polymers containing oxyalkylene groups having more than four carbon atoms in the alkylene group}

{containing at least a part of the ether groups in a side chain}

{having a low unsaturation value}

{Polymers containing cyclic groups}

{containing cycloaliphatic groups}

{containing aromatic groups}

{containing cyclic groups having at least one oxygen atom in the ring}

{containing carboxylic ester groups derived from carboxylic acids other than acids of higher fatty oils or other than resin acids}

{modified with higher fatty oils or their acids or by resin acids}

{prepared from polyeoxy compounds}

{having heteroatoms other than oxygen}

{having halogens}

{having chlorine and/or bromine atoms}

{containing primary and/or secondary amino groups}

{directly linked to carbocyclic groups}

{being in latent form}

{containing carbocyclic groups (C08G 18/5024 takes precedence)}

{containing -N=C=O groups}

{containing amide groups}

{containing urea groups}

{containing urethane groups}

{Products of hydrolysis of polyether-urethane prepolymers containing isocyanate groups}

{containing cyano groups}

{containing heterocyclic rings having at least one nitrogen atom in the ring}

{containing one nitrogen atom in the ring}

{containing two nitrogen atoms in the ring}

{containing three nitrogen atoms in the ring}

{having halogens in addition to nitrogen}

{prepared from polyeoxy compounds}

{containing sulfur}

{having phosphorus}

{having phosphorus bound to carbon and/or to hydrogen}

{having phosphorus bound to oxygen only}

{Phosphate compounds}

{Phosphite compounds}

{having nitrogen in addition to phosphorus}

{having sulfur in addition to phosphorus}

{containing silicon}

{Polythioethers}

{Polycondensates of aldehydes}

{with phenols}

{with nitrogen compounds}

{Oxalkylated polycondensates of aldehydes}

{Polycondensates of aldehydes with ketones}

{Epoxy resins (C08G 18/42, C08G 18/48 take precedence; reaction products of epoxy resins with at least equivalent amounts of compounds containing active hydrogen C08G 18/6407, with at least equivalent amounts of amines C08G 18/6415; polymeric products of isocyanates or isothiocyanates with epoxy compounds having no active hydrogen C08G 18/0003)}

{Reaction products of epoxy resins with less than equivalent amounts of compounds containing active hydrogen added before or during the reaction with the isocyanate component (with amines C08G 18/584)}

{having halogens}

{having nitrogen}

{having sulfur}

{having phosphorus}

{having silicon}

{Polyamides or polyester-amides}

{Polyamides}

{Polyester-amides}

{Polysiloxanes}

{containing carboxylic acid groups}

{Polymers of compounds having carbon-to-carbon double bonds}

{Polymers of olefins (unsaturated polymers of conjugated dienes C08G 18/69)}
18/6208 . . . . . . {Hydrogenated polymers of conjugated dienes}
18/6212 . . . . . . {Polymers of alkenylalcohols; Acetals thereof; Oxyalkylation products thereof}
18/6216 . . . . . . {Polymers of alpha-beta ethynically unsaturated carboxylic acids or of derivatives thereof}
18/622 . . . . . . {Polymers of esters of alpha-beta ethynically unsaturated carboxylic acids}
18/6225 . . . . . . {Polymers of esters of acrylic or methacrylic acid}
18/6229 . . . . . . {Polymers of hydroxy groups containing esters of acrylic or methacrylic acid with aliphatic polyalcohols}
18/623 . . . . . . {[the monomers or polymers being esterified with carboxylic acids or lactones]}
18/6237 . . . . . . {Polymers of esters containing glycidyl groups of alpha-beta ethynically unsaturated carboxylic acids; reaction products thereof}
18/624 . . . . . . {Polymers of esters containing hydroxy groups of alpha-beta ethynically unsaturated carboxylic acids with epoxy compounds other than alkylene oxides and hydroxyglycidyl compounds (esterification during or after polymerization C08G 18/6258)}
18/6245 . . . . . . {Polymers having terminal groups containing active hydrogen}
18/625 . . . . . . {Polymers of alpha-beta ethynically unsaturated carboxylic acids; hydrolyzed polymers of esters of these acids}
18/6254 . . . . . . {Polymers of alpha-beta ethynically unsaturated carboxylic acids and of esters of these acids containing hydroxy groups}
18/6258 . . . . . . {[the acid groups being esterified with polyhydroxy compounds or epoxy compounds during or after polymerization]}
18/626 . . . . . . {Polymers of nitriles derived from alpha-beta ethynically unsaturated carboxylic acids}
18/6266 . . . . . . {Polymers of amides or imides from alpha-beta ethynically unsaturated carboxylic acids}
18/627 . . . . . . {Polymers of hydroxylated esters of unsaturated higher fatty acids}
18/6275 . . . . . . {Polymers of halogen containing compounds having carbon-to-carbon double bonds; halogenated polymers of compounds having carbon-to-carbon double bonds (C08G 18/6212 takes precedence)}
18/6279 . . . . . . {containing fluorine atoms}
18/6283 . . . . . . {Polymers of nitrogen containing compounds having carbon-to-carbon double bonds (C08G 18/6262; C08G 18/6266 take precedence)}
18/6287 . . . . . . {Polymers of sulfur containing compounds having carbon-to-carbon double bonds}
18/6291 . . . . . . {Polymers of phosphorus containing compounds having carbon-to-carbon double bonds}
18/6295 . . . . . . {Polymers of silicon containing compounds having carbon-to-carbon double bonds}
18/63 . . . . . . {Block or graft polymers obtained by polymerising compounds having carbon-to-carbon double bonds on to polymers}
18/631 . . . . . . {[onto polyesters and/or polycarbonates]}
18/632 . . . . . . {[onto polyethers]}
18/633 . . . . . . {[onto polymers of compounds having carbon-to-carbon double bonds]}
18/635 . . . . . . {[onto unsaturated polymers]}
18/636 . . . . . . {[characterised by the presence of a dispersant-stabiliser]}
18/637 . . . . . . {[characterised by the in situ polymerisation of the compounds having carbon-to-carbon double bonds in a reaction mixture of saturated polymers and isocyanates]}
18/638 . . . . . . {[characterised by the use of compounds having carbon-to-carbon double bonds other than styrene and/or olefinic nitriles]}
18/64 . . . . . . {Macromolecular compounds not provided for by groups C08G 18/42 - C08G 18/63}
18/6407 . . . . . . {[Reaction products of epoxy resins with at least equivalent amounts of compounds containing active hydrogen (with amines C08G 18/643; C08G 18/42 - C08G 18/48 take precedence)]}
18/6415 . . . . . . {[having nitrogen]}
18/6423 . . . . . . {Polyalkylene polyamines; polyethylenimines; Derivatives thereof (polymides or polyesteramides C08G 18/60)}
18/643 . . . . . . {[Reaction products of epoxy resins with at least equivalent amounts of amines]}
18/6438 . . . . . . {[Polyimides or polyesterimides]}
18/6446 . . . . . . {[Proteins and derivatives thereof]}
18/6453 . . . . . . {[having sulfur]}
18/6461 . . . . . . {[having phosphorus]}
18/6469 . . . . . . {[having silicon]}
18/6476 . . . . . . {[Bituminous materials, e.g. asphalt, coal tar, pitch; derivatives thereof]}
18/6484 . . . . . . {[Polysaccharides and derivatives thereof]}
18/6492 . . . . . . {[Lignin containing materials; Wood resins; Wood tars; Derivatives thereof]}
18/65 . . . . . . {Low-molecular-weight compounds having active hydrogen with high-molecular-weight compounds having active hydrogen (C08G 18/2805 takes precedence)}
18/6505 . . . . . . {[the low-molecular compounds being compounds of group C08G 18/32 or polyamines of C08G 18/38]}
18/6511 . . . . . . {[of compounds of group C08G 18/3203]}
18/6517 . . . . . . {[of compounds having at least three hydroxy groups]}
18/6523 . . . . . . {[Compounds of group C08G 18/3225 or C08G 18/3271 or polyamines of C08G 18/38]}
18/6529 . . . . . . {[Compounds of group C08G 18/3225 or polyamines of C08G 18/38]
Compounds of groups C08G 18/34, or C08G 18/32

Unsaturated compounds having active hydrogen

NOTES
1. After the symbols C08G 18/67 and C08G 18/679 and separated by a "," sign is indicated the manufacture of polymers containing ionic or ionogenic groups from unsaturated low-molecular-weight compounds having active hydrogen by one of the symbols C08G 18/0804 - C08G 18/0833

2. After the symbols C08G 18/671 - C08G 18/679 and separated by a "," sign are indicated the polymer-backbone forming high-molecular-weight compounds containing active hydrogen or their combination with low-molecular-weight compounds by one of the symbols C08G 18/40 - C08G 18/64 without subnotations, C08G 18/65 - C08G 18/66, C08G 18/6705 and C08G 18/6795 - C08G 18/69. This note does not apply for the symbols C08G 18/6725 and C08G 18/6732.
18/674 . . . . . . . .  {Unsaturated compounds containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring}
18/6745 . . . . . . . .  {Acetylenic compounds}
18/675 . . . . . . . .  [Low-molecular-weight compounds]
18/6755 . . . . . . . .  {Unsaturated carboxylic acids}
18/676 . . . . . . . .  {containing the unsaturation at least partially in a non-aromatic carbocyclic ring}
18/6765 . . . . . . . .  {containing the unsaturation at least partially in a cyclic ring having at least one oxygen atom in the ring}
18/677 . . . . . . . .  {containing heteroatoms other than oxygen and the nitrogen of primary or secondary amino groups}
18/6775 . . . . . . . .  {containing halogen}
18/678 . . . . . . . .  {containing nitrogen}
18/6785 . . . . . . . .  {containing phosphorus}
18/679 . . . . . . . .  {Acetylenic compounds}
18/6795 . . . . . . . .  {Unsaturated polyethers}
18/68 . . . . . . . .  Unsaturated polyesters
18/683 . . . . . . . .  {containing cyclic groups}
18/686 . . . . . . . .  {containing cycloaliphatic groups}
18/69 . . . . . . . .  Polymers of conjugated dienes
{hydrogenated polymers of conjugated dienes C08G 18/6208}
18/692 . . . . . . . .  {containing carboxylic acid groups}
18/694 . . . . . . . .  {containing carboxylic ester groups}
18/696 . . . . . . . .  {containing heteroatoms other than oxygen and other than the heteroatoms of copolymerised vinyl monomers}
18/698 . . . . . . . .  {Mixtures with compounds of group C08G 18/40}
18/70 . . . . . . . .  characterised by the isocyanates or isothiocyanates used
18/701 . . . . . . . .  [Compounds forming isocyanates or isothiocyanates in situ (C08G 18/80 takes precedence)]
18/702 . . . . . . . .  {Isocyanates or isothiocyanates containing compounds having carbon-to-carbon double bonds; Telomers thereof}
18/703 . . . . . . . .  {Isocyanates or isothiocyanates transformed in a latent form by physical means}
18/705 . . . . . . . .  {Dispersions of isocyanates or isothiocyanates in a liquid medium (C08G 18/702 takes precedence)}
18/706 . . . . . . . .  {the liquid medium being water}
18/707 . . . . . . . .  {the liquid medium being a compound containing active hydrogen not comprising water}
18/708 . . . . . . . .  {Isocyanates or isothiocyanates containing non-reactive high-molecular-weight compounds}
18/71 . . . . . . . .  Monoisocyanates or monoisothiocyanates
18/711 . . . . . . . .  {containing oxygen in addition to isocyanate oxygen}
18/712 . . . . . . . .  {containing halogens}
18/714 . . . . . . . .  {containing nitrogen in addition to isocyanate or isothiocyanate nitrogen}
18/715 . . . . . . . .  {containing sulfur in addition to isothiocyanate sulfur}
18/717 . . . . . . . .  {containing phosphorus}
18/718 . . . . . . . .  {containing silicon}
18/72 . . . . . . . .  Polyisocyanates or polyisothiocyanates
18/721 . . . . . . . .  {Two or more polyisocyanates not provided for in one single group C08G 18/73 - C08G 18/80}
18/722 . . . . . . . .  {Combination of two or more aliphatic and/or cycloaliphatic polyisocyanates}
18/724 . . . . . . . .  {Combination of aromatic polyisocyanates with (cyclo)aliphatic polyisocyanates}
18/725 . . . . . . . .  {Combination of polyisocyanates of C08G 18/78 with other polyisocyanates}
18/727 . . . . . . . .  {comprising distillation residues or non-distilled raw phosgenation products}
18/728 . . . . . . . .  {Polymerisation products of compounds having carbon-to-carbon unsaturated bonds and having isocyanate or isothiocyanate groups or groups forming isocyanate or isothiocyanate groups}
18/73 . . . . . . . .  acyclic
18/735 . . . . . . . .  {containing one isocyanate or isothiocyanate group linked to a primary carbon atom and at least one isocyanate or isothiocyanate group linked to a tertiary carbon atom}
18/74 . . . . . . . .  cyclic
18/75 . . . . . . . .  cycloaliphatic
18/751 . . . . . . . .  {containing only one cycloaliphatic ring}
18/752 . . . . . . . .  {containing at least one isocyanate or isothiocyanate group linked to the cycloaliphatic ring by means of an aliphatic group}
18/753 . . . . . . . .  {containing one isocyanate or isothiocyanate group linked to the cycloaliphatic ring by means of an aliphatic group having a primary carbon atom next to the isocyanate or isothiocyanate group}
18/755 . . . . . . . .  {and at least one isocyanate or isothiocyanate group linked to a secondary carbon atom of the cycloaliphatic ring, e.g. isophorone diisocyanate}
18/756 . . . . . . . .  {and at least one isocyanate or isothiocyanate group linked to a tertiary carbon atom of the cycloaliphatic ring}
18/757 . . . . . . . .  {containing at least two isocyanate or isothiocyanate groups linked to the cycloaliphatic ring by means of an aliphatic group}
18/758 . . . . . . . .  {containing two or more cycloaliphatic rings}
18/76 . . . . . . . .  aromatic
18/7607 . . . . . . . .  {Compounds of C08G 18/7614 and of C08G 18/7657}
18/7614 . . . . . . . .  {containing only one aromatic ring}
18/7621 . . . . . . . .  {being toluene diisocyanate including isomer mixtures}
18/7628 . . . . . . . .  {containing at least one isocyanate or isothiocyanate group linked to the aromatic ring by means of an aliphatic group}
18/7635 . . . . . . . {containing one isocyanate or isothiocyanate group linked to the aromatic ring by means of an aliphatic group and at least one isocyanate or isothiocyanate group directly linked to the aromatic ring, e.g. isocyanatobenzylisocyanate}

18/7642 . . . . . . . {containing at least two isocyanate or isothiocyanate groups linked to the aromatic ring by means of an aliphatic group having a primary carbon atom next to the isocyanate or isothiocyanate groups, e.g. xylylene disiocyanate or homologues substituted on the aromatic ring}

18/765 . . . . . . . {alpha, alpha, alpha', alpha'-tetraalkylylxylylene disiocyanate or homologues substituted on the aromatic ring}

18/7657 . . . . . . . {containing two or more aromatic rings}

18/7664 . . . . . . . {containing alkylene polyphenyl groups}

18/7671 . . . . . . . {containing only one alkylene bisphenyl group}

18/7678 . . . . . . . {containing condensed aromatic rings}

18/7685 . . . . . . . {containing two or more non-condensed aromatic rings directly linked to each other}

18/7692 . . . . . . . {containing at least one isocyanate or isothiocyanate group linked to an aromatic ring by means of an aliphatic group}

18/77 . . . . . . . having heteroatoms in addition to the isocyanate or isothiocyanate nitrogen and oxygen or sulfur

18/771 . . . . . . . {oxygen}

18/773 . . . . . . . {halogens}

18/775 . . . . . . . {sulfur}

18/776 . . . . . . . {phosphorus}

18/778 . . . . . . . {silicon}

18/78 . . . . . . . Nitrogen \{C08G 18/775, C08G 18/776 take precedence\}

18/7806 . . . . . . . {containing -N-C=0 groups}

18/7812 . . . . . . . {containing amide groups}

18/7818 . . . . . . . {containing ureum or ureum derivative groups}

18/7825 . . . . . . . {containing ureum groups}

18/7831 . . . . . . . {containing biuret groups}

18/7837 . . . . . . . {containing allophenate groups}

18/7843 . . . . . . . {containing urethane groups}

18/785 . . . . . . . {containing tertiary amino groups}

18/7856 . . . . . . . {containing azo groups}

18/7862 . . . . . . . {containing cyano groups or aldimine or ketimine groups}

18/7868 . . . . . . . {containing nitro groups}

18/7875 . . . . . . . {containing heterocyclic rings having at least one nitrogen atom in the ring}

18/7881 . . . . . . . {having one nitrogen atom in the ring}

18/7887 . . . . . . . {having two nitrogen atoms in the ring}

18/7893 . . . . . . . {having three nitrogen atoms in the ring}

18/79 . . . . . . . characterised by the polyisocyanates used, these having groups formed by oligomerisation of isocyanates or isothiocyanates

18/791 . . . . . . . {containing isocyanurate groups}

18/792 . . . . . . . {formed by oligomerisation of aliphatic and/or cycloaliphatic isocyanates or isothiocyanates}

18/794 . . . . . . . {formed by oligomerisation of aromatic isocyanates or isothiocyanates}

18/795 . . . . . . . {formed by oligomerisation of mixtures of aliphatic and/or cycloaliphatic isocyanates or isothiocyanates with aromatic isocyanates or isothiocyanates}

18/797 . . . . . . . {containing carbodiimide and/or uretone-imine groups}

18/798 . . . . . . . {containing urethdione groups}

18/80 . . . . . . . Masked polyisocyanates

18/8003 . . . . . . . {masked with compounds having at least two groups containing active hydrogen}

18/8006 . . . . . . . {with compounds of C08G 18/32}

18/8009 . . . . . . . {with compounds of C08G 18/3203}

18/8012 . . . . . . . {with diols}

18/8016 . . . . . . . {Masked aliphatic or cycloaliphatic polyisocyanates}

18/8019 . . . . . . . {Masked aromatic polyisocyanates}

18/8022 . . . . . . . {with polyols having at least three hydroxy groups}

18/8025 . . . . . . . {Masked aliphatic or cycloaliphatic polyisocyanates}

18/8029 . . . . . . . {Masked aromatic polyisocyanates}

18/8032 . . . . . . . {Masked aliphatic or cycloaliphatic polyisocyanates not provided for in one single of the groups C08G 18/8016 and C08G 18/8025}

18/8035 . . . . . . . {Masked aromatic polyisocyanates not provided for in one single of the groups C08G 18/8016 and C08G 18/8025}

18/8038 . . . . . . . {with compounds of C08G 18/3225}

18/8041 . . . . . . . {with compounds of C08G 18/3271}

18/8045 . . . . . . . {with water}

18/8048 . . . . . . . {with compounds of C08G 18/34}

18/8051 . . . . . . . {with compounds of C08G 18/36}

18/8054 . . . . . . . {with compounds of C08G 18/38}

18/8058 . . . . . . . {with compounds of C08G 18/3819}

18/8061 . . . . . . . {masked with compounds having only one group containing active hydrogen}

18/8064 . . . . . . . {with monohydroxy compounds}

18/8067 . . . . . . . {phenolic compounds}

18/807 . . . . . . . {with nitrogen containing compounds}

18/8074 . . . . . . . {Lactams}

18/8077 . . . . . . . {Oximes}

18/808 . . . . . . . {Monoamines}

18/8083 . . . . . . . {with compounds containing at least one heteroatom other than oxygen or nitrogen}

18/8087 . . . . . . . {containing halogen atoms}
18/809 . . . . . . containing silicon] 18/833 . . . . . . [by nitrogen containing compounds (by azo compounds C08G 18/85)]
18/8093 . . . . . . [Compounds containing active methylene groups] 18/834 . . . . . . [by compounds containing a thiol group]
18/8096 . . . . . . [with two or more compounds having only one group containing active hydrogens] 18/835 . . . . . . [Unsaturated polymers modified by compounds containing a thiol group]
18/81 . . . . . . Unsaturated isocyanates or isothiocyanates 18/836 . . . . . . [by phosphorus containing compounds]
18/837 . . . . . . [by silicon containing compounds] 18/838 . . . . . . [by compounds containing heteroatoms other than oxygen, halogens, nitrogen, sulfur, phosphorus or silicon]
18/84 . . . . . . by aldehydes 18/85 . . . . . . by azo compounds
18/86 . . . . . . by peroxides 18/87 . . . . . . by sulfur
59/00 Polycondensates containing more than one epoxy group per molecule (low-molecular-weight polyepoxy compounds C08F); Macromolecules obtained by polymerising compounds containing more than one epoxy group per molecule using curing agents or catalysts which react with the epoxy groups
59/02 . . Polycondensates containing more than one epoxy group per molecule
59/022 . . . . . . characterised by the preparation process or apparatus used]
59/025 . . . . . . . . [by characterisation of the purification methods used]
59/027 . . . . . . . . . . [obtained by epoxydation of unsaturated precuror, e.g. polymer or monomer]
59/04 . . . . . . of polyhydroxy compounds with epihalohydrins or precursors thereof
59/06 . . . . . . of polyhydric phenols
59/063 . . . . . . [with epihalohydrins]
59/066 . . . . . . . . . . [with chain extension or advancing agents]
59/08 . . . . . . from phenol-aldehyde condensates
59/10 . . . . . . of polyamines with epihalohydrins or precursors thereof
59/12 . . . . . . of polycarboxylic acids with epihalohydrins or precursors thereof
59/14 . . Polycondensates modified by chemical after-treatment
59/1405 . . . . . . [with inorganic compounds]
59/1411 . . . . . . [containing sulfur]
59/1416 . . . . . . [Hydrogen sulfide]
59/1422 . . . . . . [containing phosphorus]
59/1427 . . . . . . [with water, e.g. hydrolysis]
59/1433 . . . . . . [with organic low-molecular-weight compounds]
59/1438 . . . . . . [containing oxygen]
59/1444 . . . . . . [Monoaclcohols]
59/145 . . . . . . [Compounds containing one epoxy group]
59/1455 . . . . . . [Monocarboxylic acids, anhydrides, halides, or low-molecular-weight esters thereof]
59/1461 . . . . . . [Unsaturated monoacloids]
59/1466 . . . . . . [Acrylic or methacyrlic acids]
59/1472 . . . . . . . . . . [Fatty acids]
59/1477 . . . . . . [containing nitrogen]
59/1483 . . . . . . [containing sulfur]
59/1488 . . . . . . [containing phosphorus]
59/1494 . . . . . . [followed by a further chemical treatment thereof]
NOTE
Preparation and curing of epoxy polycondensates, in which the epoxy polycondensate is not exclusively low-molecular-weight compound and in which the method of curing is not important, are classified only in groups C08G 59/02 - C08G 59/12.

59/22 . . . Di-epoxy compounds
59/223 . . . [together with monoepoxy compounds]
59/226 . . . [Mixtures of di-epoxy compounds]
59/24 . . . carbocyclic
59/245 . . . (aromatic)
59/26 . . . heterocyclic
59/28 . . . containing acyclic nitrogen atoms
59/30 . . . containing atoms other than carbon, hydrogen, oxygen and nitrogen
59/302 . . . (containing sulfur)
59/304 . . . (containing phosphorus)
59/306 . . . (containing silicon)
59/308 . . . (containing halogen atoms)
59/32 . . . Epoxy compounds containing three or more epoxy groups
59/3209 . . . [obtained by polymerisation of unsaturated mono-epoxy compounds]
59/3218 . . . [Carbocyclic compounds]
59/3227 . . . [Compounds containing acyclic nitrogen atoms]
59/3236 . . . [Heterocyclic compounds]
59/3245 . . . (containing only nitrogen as a heteroatom)
59/3254 . . . (containing atoms other than carbon, hydrogen, oxygen or nitrogen)
59/3263 . . . (containing sulfur)
59/3272 . . . (containing phosphorus)
59/3281 . . . (containing silicon)
59/329 . . . (containing halogen atoms)
59/34 . . . obtained by epoxidation of an unsaturated polymer
59/36 . . . together with mono-epoxy compounds
59/38 . . . together with di-epoxy compounds
59/40 . . . characterised by the curing agents used
59/4007 . . . [Curing agents not provided for by the groups C08G 59/42 - C08G 59/66]
59/4014 . . . [Nitrogen containing compounds]
59/4021 . . . [Ureas; Thioureas; Guanidines; Dicyandiamides]
59/4028 . . . [Isocyanates; Thioisocyanates]
59/4035 . . . [Hydrazines; Hydrazides]
59/4042 . . . [Imines; Imides]
59/405 . . . [Oximes]
59/4057 . . . [Carbamates]

59/4064 . . . [sulfur containing compounds (C08G 59/4021, C08G 59/4028 take precedence)]
59/4071 . . . [phosphorus containing compounds]
59/4078 . . . [boron containing compounds]
59/4085 . . . [silicon containing compounds]
59/4092 . . . [titanium containing compounds]
59/42 . . . Polycarboxylic acids; Anhydrides, halides or low molecular weight esters thereof
59/4207 . . . [aliphatic]
59/4215 . . . [cycloaliphatic]
59/4223 . . . [aromatic]
59/423 . . . (containing an atom other than oxygen belonging to a functional groups to C08G 59/42, carbon and hydrogen)
59/4238 . . . [heterocyclic]
59/4246 . . . [polymers with carboxylic terminal groups]
59/4253 . . . [Rubbers]
59/4261 . . . [Macromolecular compounds obtained by reactions involving only unsaturated carbon-to-carbon bindings (C08G 59/4253 takes precedence)]
59/4269 . . . [Macromolecular compounds obtained by reactions other than those involving unsaturated carbon-to-carbon bindings (C08G 59/4253 takes precedence)]
59/4276 . . . [Polymesters]
59/4284 . . . [together with other curing agents]
59/4292 . . . [together with monocarboxylic acids]
59/44 . . . Amides
59/442 . . . [Thioamides]
59/444 . . . [Sulfonamides]
59/446 . . . [Phosphoramides]
59/448 . . . [Lactames]
59/46 . . . together with other curing agents
59/48 . . . with polycarboxylic acids, or with anhydrides, halides or low-molecular-weight esters thereof
59/50 . . . Amines
59/5006 . . . [aliphatic]
59/5013 . . . [containing more than seven carbon atoms, e.g. fatty amines]
59/502 . . . [Polylkylene polyamines]
59/5026 . . . [cycloaliphatic]
59/5033 . . . [aromatic]
59/504 . . . (containing an atom other than nitrogen belonging to the amine group, carbon and hydrogen)
59/5046 . . . [heterocyclic]
59/5053 . . . [containing only nitrogen as a heteroatom]
59/506 . . . [having one nitrogen atom in the ring]
59/5066 . . . [Aziridines or their derivatives]
59/5073 . . . [having two nitrogen atoms in the ring]
59/508 . . . [having three nitrogen atoms in the ring]
59/5086 . . . [Triazines; Melamines; Guanamines]
59/5093 . . . [Complexes of amines]
59/52 . . . Amino carboxylic acids
59/54 . . . Amino amides>
59/56 . . . together with other curing agents
59/58 . . . with polycarboxylic acids or with anhydrides, halides, or low-molecular-weight esters thereof
59/60 . . . . with amides
59/62 . . . . Alcohols or phenols
59/621 . . . . [Phenols]
59/623 . . . . {Aminophenols}
59/625 . . . . [Hydroxyacids]
59/626 . . . . {Lactones}
59/628 . . . . {Phenolcarboxylic acids}
59/64 . . . . Amino alcohols
59/66 . . . . Mercaptans
59/68 . . . . characterised by the catalysts used
59/681 . . . . [Metal alcoholates, phenolates or carboxylates]}
59/682 . . . . [Alcoholates]
59/683 . . . . [Phenolates]
59/685 . . . . [Carboxylates]
59/686 . . . . {containing nitrogen}
59/687 . . . . {containing sulfur}
59/688 . . . . {containing phosphorus}
59/70 . . . . Chelates
59/72 . . . . Complexes of boron halides

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

NOTE
In this group, it is desirable to add the indexing codes C08G 2261/00 - C08G 2261/964

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

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

NOTE
Compounds characterised by the chemical constitution of the polyesters are classified in the groups for the type of polyester compound.
by unsaturated higher fatty oils or their acids; by resins.

- by monohydric alcohols.

Polycarboxylic acids or polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation.

The acids or hydroxy compounds containing carboxylic rings.

Hydroxy compounds containing aromatic rings.

Acids or hydroxy compounds containing cyclic aliphatic rings, e.g. Diels-Alder adducts.

Polyesters derived from ester-forming derivatives of polycarboxylic acids or of polyhydroxy compounds other than from esters thereof.

Cyclic ethers (C08G 59/00 takes precedence); Cyclic carboxylates; Cyclic alcohols; Cyclic sulfites (C08G 59/00 takes precedence).

Derived from the reaction of a mixture of hydroxy carboxylic acids, polycarboxylic acids and polyhydroxy compounds.

The hydroxy and carboxylic groups being bound to aromatic rings.

Polyesters containing both carboxylic ester groups and carbonate groups.

Polyesters containing oxygen in the form of ether groups (C08G 63/42, C08G 63/58 take precedence).

Derived from hydroxy carboxylic acids.

Derived from polycarboxylic acids and polyhydroxy compounds.

Dicarboxylic acids and dihydroxy compounds.

In which at least one of the two components contains aliphatic unsaturation.

Polymers containing atoms other than carbon, hydrogen and oxygen (C08G 63/64 take precedence).

[Containing elements not provided for by groups C08G 63/682 - C08G 63/698].

Containing halogens.

[Derived from hydroxy carboxylic acids].

[Derived from polycarboxylic acids and polyhydroxy compounds].

[Dicarboxylic acids and dihydroxy compounds].

[Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation].

Containing nitrogen.

[Derived from hydroxy carboxylic acids].

[Derived from polycarboxylic acids and polyhydroxy compounds].

[Dicarboxylic acids and dihydroxy compounds].

[Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation].

Containing sulfur.

[Derived from hydroxy carboxylic acids].

[Derived from polycarboxylic acids and polyhydroxy compounds].

[Dicarboxylic acids and dihydroxy compounds].

Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation.

Containing phosphorus.

[Derived from hydroxy carboxylic acids].

[Derived from polycarboxylic acids and polyhydroxy compounds].

[Dicarboxylic acids and dihydroxy compounds].

Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation.

Containing silicon.

[Derived from hydroxy carboxylic acids].

[Derived from polycarboxylic acids and polyhydroxy compounds].

[Dicarboxylic acids and dihydroxy compounds].

Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation.

Containing boron.

[Derived from hydroxy carboxylic acids].

[Derived from polycarboxylic acids and polyhydroxy compounds].

[Dicarboxylic acids and dihydroxy compounds].

Polycarboxylic acids and polyhydroxy compounds in which at least one of the two components contains aliphatic unsaturation.

Preparation processes.

[Characterised by the apparatus used].

Interfacial processes, i.e. processes involving a reaction at the interface of two non-miscible liquids.

Solid-state polycondensation.

Using solvents (C08G 63/79 takes precedence).

Characterised by the catalyst used.

For the preparation of polylactones or polylactides.

[Metals not provided for in groups C08G 63/83 - C08G 63/86 (C08G 63/823 takes precedence)].

Alkali metals, alkaline earth metals, beryllium, magnesium, copper, silver, gold, zinc, cadmium, mercury, manganese, or compounds thereof (C08G 63/823 takes precedence).

Boron, aluminium, gallium, indium, thallium, rare-earth metals, or compounds thereof (C08G 63/823 takes precedence).

Germanium, tin, lead, arsenic, antimony, bismuth, titanium, zirconium, hafnium, vanadium, niobium, tantalum, or compounds thereof (C08G 63/823 takes precedence).

Germanium, antimony, or compounds thereof.

Germanium or compounds thereof.

Antimony or compounds thereof.

Non-metals or inter-compounds thereof (boron C08G 63/84).

Post-polymerisation treatment.

Recovery of the polymer.

Purification; Drying.

Polymers modified by chemical after-treatment.
64/00 Macromolecular compounds obtained by reactions forming a carbonic ester link in the main chain of the macromolecule (polycarbonate-amides C08G 69/44; polycarbonate-imides C08G 73/16)

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

64/02 . . Aliphatic polycarbonates
64/0208 . . {saturated}
64/0216 . . {containing a chain-terminating or -crosslinking agent}
64/0225 . . {containing atoms other than carbon, hydrogen or oxygen}
64/0233 . . {containing halogens}
64/0241 . . {containing nitrogen}
64/025 . . {containing sulfur}
64/0258 . . {containing phosphorus}
64/0266 . . {containing silicon}
64/0275 . . {containing boron}
64/0283 . . {containing other elements}
64/0291 . . {unsaturated}
64/04 . . Aromatic polycarbonates
64/045 . . {containing aliphatic unsaturation}
64/06 . . not containing aliphatic unsaturation
64/08 . . containing atoms other than carbon, hydrogen or oxygen
64/081 . . {containing sulfur}
64/083 . . {containing phosphorus}
64/085 . . {containing silicon}
64/086 . . {containing boron}
64/088 . . {containing other elements}
64/10 . . containing halogens
64/12 . . containing nitrogen
64/14 . . containing a chain-terminating or -crosslinking agent
64/16 . . Aliphatic-aromatic or araliphatic polycarbonates
64/1608 . . {saturated}
64/1616 . . {containing a chain-terminating or -crosslinking agent}
64/1625 . . {containing atoms other than carbon, hydrogen or oxygen}
64/1633 . . {containing halogens}
64/1641 . . {containing nitrogen}
64/165 . . {containing sulfur}
64/1658 . . {containing phosphorus}
64/1666 . . {containing silicon}
64/1675 . . {containing boron}
64/1683 . . {containing other elements}
64/1691 . . {unsaturated}
64/18 . . Block or graft polymers
64/183 . . {containing polyether sequences}
64/186 . . {containing polysiloxane sequences}
64/20 . . General preparatory processes
64/205 . . {characterised by the apparatus used}
64/22 . . using carbonyl halides
64/223 . . {and cyclic ethers}
64/226 . . {and alcohols}
64/24 . . and phenols
64/26 . . using halocarbonates
64/263 . . {and cyclic ethers}
64/266 . . {and alcohols}
64/28 . . and phenols
64/30 . . using carbonates
64/302 . . {and cyclic ethers}
64/305 . . {and alcohols}
64/307 . . {and phenols}
64/32 . . using carbon dioxide
64/323 . . {unsaturated}
64/326 . . {and phenols}
64/34 . . and cyclic ethers
64/36 . . using carbon monoxide
64/38 . . using other monomers
64/40 . . Post-polymerisation treatment
64/403 . . {Recovery of the polymer}
64/406 . . {Purifying; Drying}
64/42 . . Chemical after-treatment

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

65/002 . . {from unsaturated compounds (unsaturated oxiranes C08G 65/14)}
65/005 . . {containing halogens}
65/007 . . {containing fluorine}
65/02 . . from cyclic ethers by opening of the heterocyclic ring
65/04 . . from cyclic ethers only
65/06 . . Cyclic ethers having no atoms other than carbon and hydrogen outside the ring
65/08 . . Saturated oxiranes
65/10 . . . . characterised by the catalysts used
65/105 . . . . {Onium compounds}
65/12 . . . . containing organo-metallic compounds or metal hydrides
65/14 . . Unsaturated oxiranes
65/16 . . Cyclic ethers having four or more ring atoms
65/18 . . Oxetanes
65/20 . . Tetrahydrofuran
65/22 . . Cyclic ethers having at least one atom other than carbon and hydrogen outside the ring
65/223 . . {containing halogens (epihalohydrins C08G 65/24)}
65/226 . . . . {containing fluorine}
65/24 . . Epichlorohydrins
65/26 . . from cyclic ethers and other compounds
65/2603 . . {the other compounds containing oxygen}
65/2606 . . {containing hydroxyl groups}
65/2609 . . {containing aliphatic hydroxyl groups}
65/2612 . . {containing aromatic or alylaliphatic hydroxyl groups}
65/2615 . . {the other compounds containing carboxylic acid, ester or anhydride groups}
65/2618 . . {the other compounds containing nitrogen}
65/2621 . . {containing amine groups}
65/2624 . . . . containing aliphatic amine groups
65/2627 . . . . containing aromatic or arylaliphatic amine groups
65/263 . . . . containing heterocyclic amine groups
65/2633 . . . . [the other compounds containing amide groups]
65/2636 . . . . [the other compounds containing sulfur]
65/2639 . . . . [the other compounds containing elements other than oxygen, nitrogen or sulfur]
65/2642 . . . . [characterised by the catalyst used]

**NOTES**

1. In this group classification is made according to the metal in the compounds, if any
2. In this group boron is considered a metal and magnesium as an alkaline earth metal

65/2645 . . . . [Metals or compounds thereof, e.g. salts]
65/2648 . . . . [Alkali metals or compounds thereof]
65/2651 . . . . [Alkaline earth metals or compounds thereof]
65/2654 . . . . [Aluminium or boron; Compounds thereof]
65/2657 . . . . [Aluminosilicates; Clays; Zeolites]
65/266 . . . . [Metallic elements not covered by group C08G 65/2648 - C08G 65/2645, or compounds thereof]
65/2663 . . . . [Metal cyanide catalysts, i.e. DMC’s]
65/2666 . . . . [Heteropolyacids]
65/2669 . . . . [Non-metals or compounds thereof (boron C08G 65/2654)]
65/2672 . . . . [Nitrogen or compounds thereof]
65/2675 . . . . [Phosphorus or compounds thereof]
65/2678 . . . . [Sulfur or compounds thereof]
65/2681 . . . . [Silicon or compounds thereof (silicates C08G 65/2657)]
65/2684 . . . . [Halogens or compounds thereof]
65/2687 . . . . [Elements not covered by groups C08G 65/2672 - C08G 65/2684 or compounds thereof]
65/269 . . . . [Mixed catalyst systems, i.e. containing more than one reactive component or catalysts formed in-situ]
65/2693 . . . . [Supported catalysts]
65/2696 . . . . [characterised by the process or apparatus used]
65/30 . . . . Post-polymerisation treatment, e.g. recovery, purification, drying
65/32 . . . . Polymers modified by chemical after-treatment
65/321 . . . . with inorganic compounds
65/322 . . . . containing hydrogen
65/323 . . . . containing halogens
65/3233 . . . . [Molecular halogen]
65/3236 . . . . [Fluorine]
65/324 . . . . containing oxygen
65/3245 . . . . [Carbonyl oxide]
65/325 . . . . containing nitrogen
65/3255 . . . . [Ammonia]
65/326 . . . . containing sulfur
65/3265 . . . . [Sulfur dioxide]
65/327 . . . . containing phosphorus
65/328 . . . . containing other elements

65/329 . . . . with organic compounds
65/331 . . . . containing oxygen [(cyclic ether compounds C08G 65/26)]]
65/3311 . . . . [containing a hydroxy group]
65/3312 . . . . [acyclic]
65/3314 . . . . [cyclic]
65/3315 . . . . [aromatic]
65/3317 . . . . [phenolic]
65/3318 . . . . [heterocyclic]
65/332 . . . . containing carboxyl groups, or halides, or esters thereof
65/3322 . . . . [acyclic]
65/3324 . . . . [cyclic]
65/3326 . . . . [aromatic]
65/3328 . . . . [heterocyclic]
65/333 . . . . containing nitrogen
65/33303 . . . . [containing amino group]
65/33306 . . . . [acyclic]
65/3331 . . . . [cyclic]
65/33313 . . . . [aromatic]
65/33317 . . . . [heterocyclic]
65/3332 . . . . [containing carboxamide group]
65/33324 . . . . [acyclic]
65/33327 . . . . [cyclic]
65/33331 . . . . [containing imide group]
65/33334 . . . . [acyclic]
65/33337 . . . . [cyclic]
65/33341 . . . . [aromatic]
65/33344 . . . . [containing carboxamide group]
65/33348 . . . . [containing isocyanate group]
65/33351 . . . . [acyclic]
65/33355 . . . . [cyclic]
65/33358 . . . . [aromatic]
65/33362 . . . . [heterocyclic]
65/33365 . . . . [containing cyano group]
65/33368 . . . . [acyclic]
65/33372 . . . . [acylonitrile]
65/33375 . . . . [cyclic]
65/33379 . . . . [containing nitro group]
65/33382 . . . . [acyclic]
65/33386 . . . . [cyclic]
65/33389 . . . . [aromatic]
65/33393 . . . . [heterocyclic]
65/33396 . . . . [having oxygen in addition to nitrogen]
65/334 . . . . containing sulfur
65/3342 . . . . [having sulfur bound to carbon and hydrogen]
65/3344 . . . . [containing oxygen in addition to sulfur]
65/3346 . . . . [having sulfur bound to carbon and oxygen]
65/3348 . . . . [containing nitrogen in addition to sulfur]
65/335 . . . . containing phosphorus
65/3351 . . . . [having phosphorus bound to carbon and hydrogen]
65/3353 . . . . [containing oxygen in addition to phosphorus]
65/3355 . . . . [having phosphorus bound to carbon and oxygen]
65/3356 . . . . [having nitrogen in addition to phosphorus]
65/3358 . . . . [having sulfur in addition to phosphorus]
65/336 . . . . containing silicon
65/337 . . . containing other elements (organic compounds containing halogens only as halides of a carboxyl group C08G 65/332)
65/338 . . . with inorganic and organic compounds
65/34 . from hydroxy compounds or their metallic derivatives (C08G 65/26 takes precedence)
65/36 . . . Furfuryl alcohol
65/38 . . . derived from phenols
65/40 . . . from phenols (I) and other compounds (II), e.g. OH-Ar-OH + X-Ar-X, where X is halogen atom, i.e. leaving group
65/4006 . . . (I) or (II) containing elements other than carbon, oxygen, hydrogen or halogen as leaving group (X)
65/4012 . . . [Other compound (II) containing a ketone group, e.g. X-Ar-C(=O)-Ar-X for polyetherketones]
65/4018 . . . (I) or (II) containing halogen atoms other than as leaving group (X)
65/4025 . . . (I) or (II) containing fluorine other than as leaving group (X)
65/4031 . . . (I) or (II) containing nitrogen
65/4037 . . . in ring structure, e.g. pyridine group
65/4043 . . . (I) or (II) containing oxygen other than as phenol or carbonyl group
65/405 . . . in ring structure, e.g. phenolphthalein
65/4056 . . . (I) or (II) containing sulfur (as the sulfone group C08G 75/23)
65/4062 . . . in ring structure
65/4068 . . . (I) or (II) containing elements not covered by groups C08G 65/4018 - C08G 65/4056
65/4075 . . . from self-polymerisable monomers, e.g. OH-Ar-X
65/4081 . . . forming cyclic polymers or oligomers
65/4087 . . . [characterised by the catalyst used]
65/4093 . . . [characterised by the process or apparatus used]
65/42 . . . Phenols and polycarboxylic ethers
65/44 . . . by oxidation of phenols
65/46 . . . Post-polymerisation treatment, e.g. recovery, purification, drying
65/48 . . . Polymers modified by chemical after-treatment
65/485 . . . [Polyphenylene oxides]

67/00 Macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing oxygen or carbon, not provided for in groups C08G 2/00 - C08G 65/00
67/02 . Copolymers of carbon monoxide and aliphatic unsaturated compounds
67/04 . Polyanhydrides
69/00 Macromolecular compounds obtained by reactions forming a carboxylic amide link in the main chain of the macromolecule (products obtained from isocyanates or isothiocyanates C08G 18/00; polyanhydrides C08G 73/14)
69/02 . Polymides derived from amino-carboxylic acids or from polyamines and polycarboxylic acids
69/04 . Preparatory processes
69/06 . . . Solid state polycondensation
69/08 . . . derived from amino-carboxylic acids

69/10 . . . Alpha-amino-carboxylic acids
69/12 . . . with both amino and carboxylic groups aromatically bound
69/14 . . . Lactams
69/16 . . . Preparatory processes
69/18 . . . Anionic polymerisation
69/20 . . . characterised by the catalysts used
69/22 . . . Beta-lactams
69/24 . . . Pyrrolidones or piperidones
69/26 . . . derived from polyamines and polycarboxylic acids
69/265 . . . [from at least two different diamines or at least two different dicarboxylic acids]
69/28 . . . Preparatory processes
69/30 . . . Solid state polycondensation
69/32 . . . from aromatic diamines and aromatic dicarboxylic acids with both amino and carboxylic groups aromatically bound
69/34 . . . using polymerised unsaturated fatty acids
69/36 . . . derived from amino acids, polyamines and polycarboxylic acids
69/38 . . . Polymides prepared from aldehydes and polynitrides
69/40 . . . Polymides containing oxygen in the form of ether groups (C08G 69/12, C08G 69/32 take precedence)
69/42 . . . Polymides containing atoms other than carbon, hydrogen, oxygen, and nitrogen (C08G 69/12, C08G 69/32 take precedence)
69/44 . . . Polyester-amides
69/46 . . . Post-polymerisation treatment
69/48 . . . Polymers modified by chemical after-treatment
69/50 . . . with aldehydes

71/00 Macromolecular compounds obtained by reactions forming a ureide or urethane link, otherwise, than from isocyanate radicals in the main chain of the macromolecule
71/02 . Polyureas
71/04 . Polyurethanes

73/00 Macromolecular compounds obtained by reactions forming a linkage containing nitrogen with or without oxygen or carbon in the main chain of the macromolecule, not provided for in groups C08G 12/00 - C08G 71/00 (polycarbodiimides prepared from isocyanates C08G 18/025, C08G 18/797)
73/02 . Polymides
73/0206 . . . [Polyalkylene(poly)amines]
73/0213 . . . [Preparatory process]
73/022 . . . [from polyamines and epihalohydrins]
73/0226 . . . [Quatrenisation of polyalkylene(poly)amines]
73/0233 . . . [Polymides derived from (poly)oxazolines, (poly)oxazines or having pendant acyl groups]
73/024 . . . Polymides containing oxygen in the form of ether bonds in the main chain]
73/0246 . . . [Polymides containing other atoms than carbon, hydrogen, nitrogen or oxygen in the main chain]
73/0253 . . . [Polymides containing sulfur in the main chain]
73/026 . . . [Wholly aromatic polyamines]
73/0266 . . . [Polyanilines or derivatives thereof]
NOTES
1. In this subgroup, "spiro" and "bridged" compounds are considered as condensed.
2. Heterocyclic rings containing both nitrogen and sulfur are classified in subgroups C08G 75/00 - C08G 75/32.

73/0605 . . . {Polycondensates containing five-membered rings, not condensed with other rings, with nitrogen atoms as the only ring hetero atoms}
73/0611 . . . {with only one nitrogen atom in the ring, e.g. polypyrroles (polysuccinimides C08G 73/1092)}
73/0616 . . . {with only two nitrogen atoms in the ring}
73/0622 . . . {Polycondensates containing six-membered rings, not condensed with other rings, with nitrogen atoms as the only ring hetero atoms}
73/0627 . . . {with only one nitrogen atom in the ring}
73/0633 . . . {with only two nitrogen atoms in the ring}
73/0638 . . . {with at least three nitrogen atoms in the ring}
73/0644 . . . {Poly(1,3,5)triazines}
73/065 . . . . . . . {Preparatory processes}
73/0655 . . . . . . . {from polycyanurates}
73/0661 . . . . . . . {characterised by the catalyst used}
73/0666 . . . . {Polycondensates containing five-membered rings, condensed with other rings, with nitrogen atoms as the only ring hetero atoms}
73/0672 . . . {with only one nitrogen atom in the ring}
73/0677 . . . {with only two nitrogen atoms in the ring}
73/0683 . . . {Polycondensates containing six-membered rings, condensed with other rings, with nitrogen atoms as the only ring hetero atoms}
73/0688 . . . {with only one nitrogen atom in the ring, e.g. polquinolines}
73/0694 . . . {with only two nitrogen atoms in the ring, e.g. polquinoxalines}
73/08 . . . Polyanhydrides; Polytiazoles; Polyanhydrides; Polychloroazoles
73/10 . . . Polyanhydrides; Polyanhydrides; Polychloroazoles
73/1003 . . . {Preparatory processes}
73/1007 . . . {from tetracarboxylic acids or derivatives and diamines}
73/101 . . . . . . . {containing chain terminating or branching agents}
73/1014 . . . . . . . {in the form of (mono)amine}
73/1017 . . . . . . . {in the form of (mono)anhydrid}
73/1021 . . . . . . . {characterised by the catalyst used}
73/1025 . . . . . . . {polymerised by radiations}
73/1028 . . . . . . . {characterised by the process itself, e.g. steps, continuous}
73/1032 . . . . . . . {characterised by the solvent(s) used}
73/1035 . . . . . . . {from tetracarboxylic acids or derivatives and diisocyanates}
NOTES

1. In this group, macromolecular compounds are classified for the inventive aspects which are relevant in any of the following sets of groups:
   - C08G 75/0209 - C08G 75/0245;
   - C08G 75/025 - C08G 75/0268;
   - C08G 75/0277 - C08G 75/0281;
   - C08G 75/0286 - C08G 75/0295.

2. Within each set of groups mentioned in Note (1), the last place priority rule is applied, i.e. at each hierarchical level, in the absence of an indication to the contrary, classification is made in the last appropriate place.

WARNING

Groups C08G 75/0204 - C08G 75/0281 are incomplete pending reclassification of documents from groups C08G 75/04 and C08G 75/045.

All groups listed in this Warning should be considered in order to perform a complete search.

75/0209 . . . derived from monomers containing one aromatic ring
75/0213 . . . containing elements other than carbon, hydrogen or sulfur
75/0218 . . . . (containing oxygen)
75/0222 . . . . containing nitrogen
75/0227 . . . derived from monomers containing two or more aromatic rings
75/0231 . . . containing chain-terminating or chain-branching agents
75/0236 . . . containing atoms other than carbon or sulfur in a linkage between arylene groups
75/024 . . . containing carbonyl groups
75/0245 . . . Block or graft polymers

WARNING

Group C08G 75/0245 is incomplete pending reclassification of documents from group C08G 75/12.

Groups C08G 75/12 and C08G 75/0245 should be considered in order to perform a complete search.

75/025 . . . Preparatory processes
75/024 . . . using metal sulfides
75/0259 . . . metal hydrogensulfides
75/0263 . . . using elemental sulfur
75/0268 . . . using disulfides
75/0272 . . . (using other sulfur sources)

75/0277 . . . Post-polymerisation treatment (chemical after-treatment C08G 75/0286)

WARNING

Groups C08G 75/0277 and C08G 75/0281 are incomplete pending reclassification of documents from groups C08G 75/04 and C08G 75/045. Groups C08G 75/0277 and C08G 75/0281 are also impacted by reclassification into groups C08G 75/0286-C08G 75/0295.

All groups listed in this Warning should be considered in order to perform a complete search.

75/0281 . . . Recovery or purification
75/0286 . . . Chemical after-treatment

WARNING

Groups C08G 75/0286-C08G 75/0295 are incomplete pending reclassification of documents from groups C08G 75/0277, C08G 75/0281, C08G 75/04, and C08G 75/045.

All groups listed in this Warning should be considered in order to perform a complete search.

75/029 . . . Modification with organic compounds
75/0295 . . . Modification with inorganic compounds
75/04 . . . from mercapto compounds or metallic derivatives thereof (C08G 75/0204 takes precedence)

WARNING

Groups C08G 75/04 and C08G 75/045 are impacted by reclassification into groups C08G 75/0204-C08G 75/0295.

All groups listed in this Warning should be considered in order to perform a complete search.

75/045 . . . from mercapto compounds and unsaturated compounds
75/06 . . . from cyclic thiethers
75/08 . . . from thiiranes
75/10 . . . from sulfur or sulfur-containing compounds and aldehydes or ketones
75/12 . . . Polythioether-ethers (C08G 75/0245 takes precedence)

WARNING

Group C08G 75/12 is impacted by reclassification into group C08G 75/0245.

Groups C08G 75/12 and C08G 75/0245 should be considered in order to perform a complete search.

75/14 . . . Polysulfides
75/16 . . . by polycondensation of organic compounds with inorganic polysulfides
75/18 . . . Polysulfoxides
75/20 . . . Polysulfones
75/205 . . . Copolymers of sulfur dioxide with unsaturated organic compounds
75/22 . . . Copolymers of sulfur dioxide with unsaturated aliphatic compounds
Macromolecular compounds obtained by reactions forming a linkage containing silicon with or without sulfur, nitrogen, oxygen or carbon in the main chain of the macromolecule

- Polysilicates
- Polysiloxanes
- [containing less than 25 silicon atoms]
- Preparatory processes [(C08G 77/045 takes precedence)]
- characterised by the catalysts used
- Equilibration processes
- containing silicon bound to hydrogen [(C08G 77/045 takes precedence)]
- containing silicon bound to oxygen-containing groups [(C08G 77/045 takes precedence)]
- to hydroxyl groups
- to alkoxy or aryloxy groups
- containing silicon bound to unsaturated aliphatic groups [(C08G 77/045 takes precedence)]
- containing silicon bound to organic groups containing atoms other than carbon, hydrogen and oxygen [(C08G 77/045 takes precedence)]
- halogen-containing groups
- nitrogen-containing groups
- sulfur-containing groups
- phosphorus-containing groups
- Post-polymerisation treatment [(C08G 77/045 takes precedence) chemical after-treatment C08G 77/38]
- Purification
- Fractionation
- Polysiloxanes modified by chemical after-treatment [(C08G 77/045 takes precedence)]
- containing atoms other than carbon, hydrogen, oxygen or silicon
- containing halogens
- containing nitrogen
- containing sulfur
- containing phosphorus
- containing boron or metal atoms
- Block- or graft-polymers containing polysiloxane sequences (polymerising aliphatic unsaturated monomers on to a polysiloxane C08F 283/12)
- containing only polysiloxane sequences
- containing vinyl polymer sequences
- containing polyester sequences
- containing polycarbonate sequences
- containing nitrogen-containing sequences
- containing polyamide, polysteramide or polyyamide sequences
- containing polyurethane sequences
- containing polyether sequences
- in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms (C08G 77/42 takes precedence)
- [containing less than 25 silicon atoms]
2100/00 Foams
2100/0008 {flexible}
2100/0016 {semi-rigid}
2100/0025 {rigid}
2100/0033 {having integral skins}
2100/0041 {having specified density}
2100/005 {< 50 kg/m}
2100/0058 {> 50 and < 150 kg/m}
2100/0066 {> 150 Kg/m including microcellular foams}
2100/0075 {prepared with an isocyanate index of 60 or lower}
2100/0083 {prepared using water as the sole blowing agent}
2100/0091 {Aerogels; Xerogels}

2105/00 Oligomerisation
2105/02 . to isocyanurate groups
2105/06 . to carbodiimide or uretone-imine groups

2120/00 Compositions for reaction injection moulding processes

2125/00 Compositions for processes using internal mould release agents

2130/00 Compositions of compatibilising agents used in mixtures of high-molecular-weight compounds having active hydrogen with other compounds having active hydrogen

2140/00 Compositions for moulding powders

2150/00 Compositions for coatings (not used)
2150/20 . Compositions for powder coatings
2150/50 . Compositions for coatings applied by spraying at least two streams of reaction components
2150/60 . Compositions for foaming; Foamed or intumescent coatings
2150/90 . Compositions for anticorrosive coatings

2170/00 Compositions for adhesives (not used)
2170/20 . Compositions for hot melt adhesives
2170/40 . Compositions for pressure-sensitive adhesives
2170/60 . Compositions for foaming; Foamed or intumescent adhesives
2170/80 . Compositions for aqueous adhesives
2170/90 . Compositions for adhesives used in footwear

2190/00 Compositions for sealing or packing joints

2210/00 Compositions for preparing hydrogels

2220/00 Compositions for preparing gels other than hydrogels, aerogels and xerogels

2230/00 Compositions for preparing biodegradable polymers

2250/00 Compositions for preparing crystalline polymers

2260/00 Macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain of the macromolecule
2261/10 . Definition of the polymer structure
2261/11 . Homopolymers
2261/12 . Copolymers
2261/122 . statistical
2261/124 . alternating
2261/126 . block
2261/128 . graft
2261/13 . Morphological aspects
2261/131 . dendritic
2261/132 . branched or hyperbranched
2261/133 . Rod-like building block
2261/1332 . . . Non-ladder-type, e.g. polyphenylenes, PPVs or polythiophenes
2261/1334 . . . Step-ladder-type, e.g. polyfluorenes or polycarbazoles
2261/1336 . . . Ladder-type, e.g. ladder-poly-p-phenylene
2261/134 . . Rod and coil building blocks
2261/135 . . Cross-linked structures
2261/136 . . Comb-like structures
2261/14 . . Side-groups
2261/141 . . Side-chains having aliphatic units
2261/1412 . . . Saturated aliphatic units
2261/1414 . . . Unsaturated aliphatic units
2261/142 . . Side-chains containing oxygen
2261/1422 . . . containing OH groups
2261/1424 . . . containing ether groups, including alkoxy
2261/1426 . . . containing carboxyl groups (COOH) and/or -C(=O)-O-moieties
2261/1428 . . . containing acyl groups
2261/143 . . Side-chains containing nitrogen
2261/1432 . . . containing amide groups
2261/1434 . . . containing triarylamino moieties
2261/144 . . Side-chains containing silicon
2261/145 . . Side-chains containing sulfur
2261/1452 . . . containing sulfonyl or sulfonate-groups
2261/146 . . Side-chains containing halogens
2261/147 . . Side-chains with other heteroatoms in the side-chain
2261/148 . . Side-chains having aromatic units
2261/149 . . Side-chains having heteroaromatic units
2261/15 . . conjugated side-chains
2261/152 . . . comprising metal complexes
2261/1522 . . . of alkali metals or alkaline-earth metals
2261/1523 . . . of rare earth metals, i.e. Sc, Y or lanthanides
2261/1524 . . . of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta or W
2261/1526 . . . of Os, Ir, Pt, Ru, Rh or Pd
2261/1528 . . . of Al
2261/1529 . . . of Fe, Co or Ni
2261/16 . . End groups
2261/162 . . . comprising metal complexes
2261/1621 . . . of alkali metals or alkaline-earth metals
2261/1622 . . . of rare earth metals, i.e. Sc, Y or lanthanides
2261/1623 . . . of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta or W
2261/1624 . . . of Os, Ir, Pt, Ru, Rh or Pd
2261/1625 . . . of Al
of Fe, Co or Ni
comprising organic end groups
comprising reactive double bonds or triple bonds
comprising other functional groups, e.g. OH groups, NH groups, COOH groups or boronic acid
comprising aromatic or heteroaromatic end groups
Dendritic core
conjugated
partially conjugated
non-conjugated
Stereochemical aspects
Regioregularity
Chirality
Cis-trans isomerism
Molecular weight
monodisperse
polydisperse
Oligomers, i.e. up to 10 repeat units
Polymers, i.e. more than 10 repeat units
Monomer units or repeat units incorporating structural elements in the main chain
incorporating aromatic structural elements in the main chain
Non-condensed aromatic systems, e.g. benzene
Condensed aromatic systems, e.g. perylene, anthracene or pyrene
fluorene-based, e.g. fluorene, indeno[1,2-b]fluorine
bridged by heteroatoms, e.g. N, P, Si or B
Arylamines
incorporating heteroaromatic structural elements in the main chain
non-condensed
containing one or more nitrogen atoms as the only heteroatom, e.g. pyrrole, pyridine or triazole
containing one or more oxygen atoms as the only heteroatom, e.g. furan
containing one or more sulfur atoms as the only heteroatom, e.g. thiophene
containing one or more Si atoms as the only heteroatom
containing one or more Se atoms as the only heteroatom
containing one or more Te atoms as the only heteroatom
containing only one kind of heteroatoms other than N, O, S
containing nitrogen and oxygen as heteroatoms
containing nitrogen and sulfur as heteroatoms
containing combinations of different heteroatoms other than nitrogen and oxygen or nitrogen and sulfur
containing non-aromatic structural elements in the main chain
containing only carbon atoms
derived from cyclo pentene
derived from cyclooctene
derived from other monocyclic systems
derived from norbornene
derived from other polycyclic systems
alkane-based
alkene-based
alkyne-based
containing heteroatoms
derived from cycloolefins containing heteroatoms
incorporating partially-aromatic structural elements in the main chain
containing only carbon atoms
conjugated, e.g. PPV-type
non-conjugated, e.g. paracyclophanes or xylene
containing heteroatoms
Polyetherketones
Polyethersulfones
Macromonomers, i.e. comprising more than 10 repeat units
containing only carbon atoms
containing hetero atoms
Oligomers, i.e. comprising up to 10 repeat units
containing only carbon atoms
containing only carbon atoms
Metal complexes
of alkali metals and alkaline-earth metals
of rare earth metals, i.e. Sc, Y, lanthanides
of Ti, V, Cr, Zr, Nb, Mo, Hf, Ta, W
of Os, Ir, Pt, Ru, Rh, Pd
of Al
of Fe, Co, Ni
Polymerisation processes
Organometallic coupling reactions
Suzuki reactions
Yamamoto reactions
Heck reactions
Stille reactions
Sonogashira / Hagihara reactions
zinc-based, e.g. Ricke reactions
magnesium-based, e.g. Grignard or McCullough reactions
Ring opening metathesis polymerisation [ROMP]
Acyclic diene metathesis [ADMET]
C08G

2261/42 . . . Non-organometallic coupling reactions, e.g. Gilch-type or Wessling-Zimmermann type
2261/43 . . . Chemical oxidative coupling reactions, e.g. with FeCl_3
2261/44 . . . Electrochemical polymerisation, i.e. oxidative or reductive coupling
2261/45 . . . Friedel-Crafts-type
2261/46 . . . Diels-Alder reactions
2261/50 . . . Physical properties
2261/51 . . . Charge transport
2261/52 . . . Hole transport
2261/54 . . . Electron transport
2261/56 . . . ion-conductive
2261/57 . . . Luminescence
2261/58 . . . fluororescent
2261/59 . . . electroluminescent
2261/60 . . . phosphorescent
2261/61 . . . as active layer in lasers
2261/63 . . . liquid-crystalline
2261/64 . . . electrochromic
2261/65 . . . therioelectric
2261/66 . . . thermochemical
2261/67 . . . photorefractive, e.g. change of refractive index
2261/69 . . . corrosion-inhibiting
2261/70 . . . Stability
2261/72 . . . against heat
2261/74 . . . against light, i.e. electromagnetic radiation
2261/76 . . . against oxidation
2261/77 . . . Chemical stability
2261/78 . . . Glass transition temperature
2261/79 . . . Permeability
2261/80 . . . for gases
2261/81 . . . for liquids
2261/82 . . . Mechanical aspects
2261/84 . . . Viscosity
2261/85 . . . Solubility
2261/86 . . . Electrical insulator
2261/89 . . . Post-treatment
2261/90 . . . Functional group cleavage, e.g. removal of side-chains or protective groups
2261/91 . . . Applications
2261/92 . . . Photovoltaic applications
2261/94 . . . TFT applications
2261/95 . . . Applications in textiles, fabrics and yarns
2261/96 . . . Applications in sensors, e.g. biosensors
2261/97 . . . Use in organic luminescent diodes
2261/98 . . . coating of particles
2261/99 . . . coating of organic particles
2261/100 . . . coating of inorganic particles
2261/101 . . . Compositions for creating interpenetrating networks
2261/102 . . . Compositions for creating shape memory
2261/103 . . . Compositions for creating anti-fogging
2261/104 . . . Agricultural use or equipment
2261/105 . . . Thermal insulation material (not used)
2261/106 . . . Evacuated open-celled polymer material
2261/107 . . . Filter material
2261/108 . . . Acoustic or vibration damping material
2261/109 . . . Tyres
2261/110 . . . Containers
2261/111 . . . Inner coatings for containers
2261/112 . . . Soles
2261/113 . . . Macromolecular compounds obtained by reactions forming an ether link in the main chain of the macromolecule
2261/114 . . . characterized by the polymer type
2261/115 . . . characterized by the initiator used in polymerisation
2261/116 . . . characterized by the type of post-polymerisation functionalisation
2261/117 . . . characterized by the catalyst used in the post-polymerisation functionalisation step
2261/118 . . . Depolymerisation, e.g. to reform the monomer
2261/119 . . . De-esterification, e.g. of polythf-diesters
2261/120 . . . Photo-polymerisation
2261/121 . . . Photodegradation
2261/122 . . . characterised by the initiator used in polymerisation
2261/123 . . . Polymeric initiators
2261/124 . . . characterised by the type of post-polymerisation functionalisation step
2261/125 . . . Sugars or saccharides used as initiators
2261/126 . . . characterised by the polymer type
2261/127 . . . branched
2261/128 . . . dendritic or similar
2261/129 . . . Oligomeric, e.g. cyclic oligomeric
2261/130 . . . Pre-polymer
2261/131 . . . containing oxygen in addition to the ether group
2261/132 . . . containing ketone groups, e.g. polyarylethylketones, PEEK or PEK
2261/133 . . . containing orthoester groups
2261/134 . . . containing acetal or formal groups
2261/135 . . . containing halogen
2261/136 . . . containing fluorine, e.g. perfluropolyethers
2261/137 . . . containing nitrogen, e.g. polyetheramines or Jeffamines(r)
2261/138 . . . obtained by dehydration of polyhydric alcohols
2261/139 . . . Polyglycerols
2261/140 . . . Polyglycerol ethers, e.g. phenoxy resins
Ethylene oxide or propylene oxide copolymers, e.g. pluronics
containing acetylenic group
characterised by the nature of monomer used
Monomer containing functional groups not involved in polymerisation
Oligomeric monomers
Especially purified monomers