This Class 525 is considered to be an integral part of Class 520 (see the Class 520 schedule for the position of this Class in schedule hierarchy). This Class retains all pertinent definitions and class lines of Class 520.

**SYNTHETIC RESINS (CLASS 520, SUBCLASS 1)**

1. **ETHYLENICALLY UNSATURATED REACTANT ADMIXED WITH A PREFORMED REACTION PRODUCT DERIVED FROM: (a) AT LEAST ONE POLYCARBOXYLIC ACID, ESTER, OR ANHYDRIDE; (b) AT LEAST ONE POLYHYDROXY COMPOUND; AND (c) AT LEAST ONE FATTY ACID GLYCEROL ESTER, OR A FATTY ACID OR SALT DERIVED FROM A NATURALLY OCCURRING GLYCERIDE, TALL OIL, OR A TALL OIL FATTY ACID**

2. Mixed in the presence of a specified material

3. Mixed with silicon-containing reactant or polymer derived therefrom

4. Mixed with aldehyde or derivative as reactant or polymer derived therefrom

5. Mixed with previously formed solid polymer or SPFI

6. **ETHYLENICALLY UNSATURATED REACTANT ADMIXED WITH EITHER (A) A POLYMER DERIVED FROM A SATURATED DI- OR HIGHER ESTER OF A POLYCARBOXYLIC ACID AS SOLE REACTANT, OR (B) REACTION PRODUCT OF ONLY POLYCARBOXYLIC ACIDS OR ANHYDRIDES WITH ONLY COMPOUNDS HAVING AT LEAST TWO HYDROXYL GROUPS AT LEAST ONE OF WHICH IS SATURATED AND WHEREIN THE REACTION PRODUCT FORMED IS NOT AFTERTREATED PRIOR TO ADMIXTURE WITH THE UNSATURATED REACTANT EXCEPT WITH A POLYCARBOXYLIC ACID, POLYCARBOXYLIC ACID ANHYDRIDE, OR A POLYOL, AND WHEREIN NO SOLID POLYMER DERIVED FROM ETHYLENIC REACTANTS ONLY IS MIXED THEREWITH**

7. Mixed in presence of specified material or a polymerizable composition contains a specified material

8. Specified material contains boron or silicon atom

9. Specified material contains metal atom other than from group IA metal atom (Li, Na, K, Rb, Cs, Fr)

10. Material contains Group IB metal atom (Cu, Ag, Au)

11. Material contains Group IIB metal atom (Zn, Cd, Hg) or IIIA metal atom (Al, Ga, In, Tl)

12. Material contains Group VB metal atom (V, Nb, Ta)

13. Material contains Group VIII metal atom (Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt)

14. Material contains Group IVA metal atom (Ge, Sn, Pb)

15. Material contains Group IVA metal atom (Be, Mg, Ca, Sr, Ba, Ra)

16. Material contains Group IB metal atom (Cu, Ag, Au)

17. Material contains Group IIB metal atom (Zn, Cd, Hg) or IIIA metal atom (Al, Ga, In, Tl)

18. Material contains Group VIB metal atom (Ge, Sn, Pb)

19. Material contains Group IVA metal atom (Be, Mg, Ca, Sr, Ba, Ra)

20. Material contains phosphorus atom

21. Material contains ketone group

22. Material contains an aldehyde or derivative thereof

23. Material contains sulfur atom
24 ...Sulfur is part of heterocyclic ring
25 ...Specified material contains nitrogen atom
26 ...Nitrogen is part of heterocyclic ring
27 ...Specified material contains a peroxy group, i.e., -O-0-
28 ...Mixed with -N=C=X reactant or polymer derived therefrom (X is chalcogen)
29 ...Mixed with silicon-containing reactant or polymer derived therefrom
30 ...Mixed with a solid polymer or specified intermediate condensation product derived from at least one amine-\(N-C(=X)-N-S(=O)\)-containing reactant and at least one aldehyde or aldehyde-type reactant (X is chalcogen)
31 ...Mixed with an 1,2-epoxy compound containing more than one 1,2-epoxy group per mole or polymer derived therefrom
32 ...Mixed with a phenolic reactant and an aldehyde or aldehyde-type reactant or reaction product thereof
32.1 ...Polymer derived from polycarboxylic acid and polyhydroxyl compound is derived from at least one polycarboxylic acid reactant which is a dimer or trimer of an ethylenically unsaturated aliphatic monocarboxylic acid having at least ten carbon atoms; or adducts of said unsaturated monocarboxylic acid with an alpha, beta ethylenically unsaturated carboxylic acid or derivative
32.2 ...Ethylenic reactant or polymer derived from polycarboxylic acid or anhydride and polyol is derived from a carbohydrate or derivative
33 ...Polymer derived from polycarboxylic acid and polyhydroxy compound is derived from at least one polycarboxylic acid containing at least three carboxyl groups or more than one anhydride group
34 ...Polymer derived from polyhydroxy reactant and polycarboxylic acid is derived from at least one reactant containing at least three hydroxyl groups
35 ...Polymer derived from polycarboxylic acid anhydride and polyhydroxy compound is derived from at least two polycarboxylic acid reactants or two polycarboxylic acid anhydrides or mixture thereof
36 ...At least one of said polycarboxylic acid reactants or anhydrides contains ethylenic unsaturation
37 ...Polymer mixed with unsaturated reactant containing phosphorus atom
38 ...Polymer mixed with unsaturated reactant containing nitrogen atom
39 ...Polymer mixed with unsaturated reactant containing carboxylic acid, ester, salt or anhydride group
40 ...Polymer mixed with unsaturated reactant containing aryl ring
41 ...Polymer derived from polycarboxylic acid or anhydride and polyhydroxy compound is derived from at least two polyhydroxy compounds
42 ...Polymer derived from polycarboxylic acid or anhydride and polyhydroxy compound is derived from polyhydroxy compound containing ether linkage
43 ...Polymer derived from polycarboxylic acid or anhydride and polyhydroxy compound wherein at least one of the reactants contains ethylenic unsaturation

44 ...Polymer mixed with unsaturated reactant containing two or more unsaturated groups

45 ....Wherein unsaturated reactant contains three nitrogen atoms in the same ring

46 ...Polymer mixed with unsaturated reactant containing nitrogen atom

47 ....Unsaturated reactant contains nitrogen heterocycle

48 ...Polymer mixed with unsaturated carboxylic acid, ester, salt, or anhydride

49 ...Polymer mixed with unsaturated aromatic compound

50 .MIXING OF TWO OR MORE SOLID POLYMERS; MIXING OF SOLID POLYMER OR SICP WITH SICP OR SPFI; MIXING OF SICP WITH AN ETHYLENIC AGENT; MIXING OF SOLID POLYMER WITH A CHEMICAL TREATING OR ETHYLENIC AGENT; OR PROCESSES OF FORMING OR REACTING; OR THE RESULTANT PRODUCT OF ANY OF THE ABOVE OPERATIONS

51 ..Effecting a change in a process in response to a measurement or test

52 ..Utilizing a tubular or loop reactor

53 ..Utilizing an apparatus with two or more physically distinct zones

54 ..Removing and recycling material from one zone to another

54.1 ..Containing chemically combined protein or biologically active polypeptide

54.11 ...Solid polymer treated by stepwise reaction with naturally occurring alpha or beta amino acid or a material which contains a residue of said amino acid, e.g., a functionally protected amino acid, etc.

54.2 ...Previously formed solid polymer chemically reacted with carbohydrate or derivative

54.21 ...Cellulose or derivative as chemical reactant

54.22 ....Previously formed solid polymer is derived from $N=C=X$ reactant or contains $N=C=X$ group wherein X is chalcogen

54.23 ....Previously formed solid polymer is derived from ethylenically unsaturated reactants only

54.24 ...Starch, starch flour or meal, or derivative as chemical reactant

54.26 ....Previously formed solid polymer derived from ethylenic reactants only

54.3 ..Previously formed solid polymer containing chemically combined carbohydrate admixed with a chemical treating or ethylenic agent, SPFI, SICP, or solid polymer

54.31 ...Carbohydrate containing polymer is derived from starch, or starch containing flour or meal

54.32 ....Carbohydrate containing polymer derived from acrylonitrile

54.4 ..Containing chemically combined natural resin or derivative thereof other than tall oil

54.41 ...Shellac

54.42 ...Previously formed solid polymer chemically reacted with natural resin or derivative

54.44 ....At least one previously formed solid polymer derived from ethylenic monomers only

54.45 ...Previously formed solid polymer containing chemically combined natural resin or derivative admixed with an ethylenic agent or a chemical treating agent other than SICP or SPFI

54.5 ..Chemically combined coal, bituminous material, extract, or derivative thereof; oil shale; or fatty still residue
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55

...At least one solid polymer derived from ethylenic reactants only

56

...Polyvinyl alcohol

57

....With solid polymer derived from ethylenic reactants only

58

....With SICP, SPFI, or polymer thereof

59

....With ethylenic reactant

60

....Interpolymers

61

....Chemical modification utilizing a chemical treating agent

62

....Processes only of preparing polyvinyl alcohol

63

...Mixing of solid graft or graft-type copolymer with other solid polymer wherein one of said solid polymers is not derived from ethylenic reactants only; mixing of said polymer mixture with a chemical treating agent; or mixing of graft or graft-type copolymer with a SICP or SPFI; or processes of forming or reacting; or the resultant product of any of the above operations

64

....Solid graft or graft-type copolymer derived from ethylenic reactants only

65

.....With saturated 1,2-epoxy reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom; or with solid copolymer derived from at least one unsaturated 1,2-epoxy reactant wherein the epoxy reactant contains more than one 1,2-epoxy group per mole and at least one saturated reactant

66

.....With solid polymer derived from at least one nitrogen-containing reactant wherein at least one of the reactants forming the solid polymer is saturated; or with SPFI wherein at least one of the necessary ingredients contains a nitrogen atom or with a reaction product thereof; or with nitrogen-containing SICP

67

.....With solid polymer derived from at least one hal-C(=O)-hal, O-C(=O)-O or hal-C(=O)-O-reactant wherein at least one of the reactants forming the solid polymer is saturated; or with SPFI wherein at least one of the necessary ingredients is a hal-C(=O)-hal, O-C(=O)-O, or hal-C(=O)-O containing reactant or reaction product thereof; or with a SICP containing a hal-C(=O)- or O-C(=O)-O- group

68

.....With solid polymer derived from at least one phenolic reactant wherein at least one of the reactants forming the solid polymer is saturated; or with SPFI wherein at least one of the necessary ingredients is a phenolic reactant or with a reaction product thereof; or with phenolic-containing SICP

69

....Solid graft or graft-type copolymer contains backbone derived from ethylenic reactants only

70

.....Mixing of solid graft or graft-type copolymer derived from ethylenic reactants only with other solid polymer derived from ethylenic reactants only; or treating said mixture with chemical treating agent; or processes of forming or reacting; or the resultant product of any of the above operations

71

.....Contains two or more graft or graft-type copolymers or a graft or a graft type copolymer and at least one block or block-type copolymer

72

.....Mixture contains solid polymer derived from reactants containing an atom other than C, H, O, N, or chlorine

73

.....Mixture contains solid polymer derived from reactant containing nitrogen heterocycle

74

.....Mixture contains solid polymer derived from reactant containing oxygen heterocycle

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75 ....Mixture contains solid polymer derived from reactant containing a fused- or bridged-ring system or from cycloaliphatic reactant
76 ....Mixture contains solid polymer derived from chlorine-containing reactant other than from vinyl(idene) chloride
77 ....Mixture contains solid polymer derived from reactant containing nitrogen other than from (meth)acrylonitrile
78 ....Mixture contains solid polymer derived from reactant containing carboxylic acid group
79 ....Mixture contains solid polymer derived from reactant containing ether or hydroxyl group
80 ....Mixture contains solid polymer derived from reactant containing carboxylic acid ester group
81 .....Reactant contains at least two ester groups
82 ......Ester derived from a polyol
83 ......Substrate polymer derived from hydrocarbon containing plural unsaturation
84 ......Polymor substrate derived from hydrocarbon reactants only
85 ......Polymor substrate derived from an unsaturated carboxylic acid ester
86 ....Mixture contains solid polymer derived from nonaromatic reactant containing plural ethylenically unsaturated groups
87 ....Solid polymer other than graft or graft-type derived from nonaromatic plural ethylenically unsaturated reactant
88 .....Mixing of solid block or block-type copolymer with other solid polymer; mixing of said polymer mixture with a chemical treating agent; mixing of a block or block-type copolymer with SICP or with SPF; or processes of forming or reacting; or the resultant product of any of the above operations
89 ....Mixture contains two or more solid block or block-type copolymers
90 ....Mixture contains solid block copolymer wherein at least one block is derived from ethylenic reactants only and at least one block is derived from at least one saturated reactant
91 .....Block derived from at least one saturated reactant containing a heterocycle
92 R ....Mixture contains solid polymer derived from at least one saturated reactant, SICP, or SPF
92 A .....Solid block or block-type copolymer derived from saturated reactants only
92 B .....Solid polymer derived from a lactam; from an amino carboxylic acid or derivative; from a polyamine and a polycarboxylic acid or derivative
92 C .....Solid polymer derived from -N=C=X reactant, wherein X is chalcogen
92 D .....Solid polymer derived solely from a phenolic reactant or derivative thereof, wherein no reactant contains a plurality of methylol groups
92 E .....Solid polymer derived form -O-C(=O)-O- or hal-C(=O)- containing reactant
92 F .....Solid polymer derived from polyhydroxy reactant and polycarboxylic acid or derivative
92 G .....Solid polymer derived from silicon-containing reactant
92 H .....Solid polymer derived from saturated 1,2-epoxy reactant containing more than one 1,2-epoxy group per molecule
92 J .....Solid polymer derived from sulfur-containing reactant
92 K .....Solid polymer derived from saturated aldehyde or aldehyde derivative material
92 L .....Solid polymer derived from heterocyclic material
92 M .....Solid polymer derived from saturated ketone reactant
93 .....Mixture contains solid polymer derived from reactant containing chalcogen
94 .....Solid block or block-type copolymer derived from reactant containing carboxylic acid ester group
95 .....Mixture contains solid block or block-type copolymer derived from ethylenically unsaturated hydrocarbon reactants only at least one of which contains at least four carbon atoms
96 .....With solid polymer derived from reactant containing an atom other than C, H or chalcogen
97 .....Mixture contains solid polymer derived from reactant containing a fused- or bridged-ring system
98 .....Solid block or block-type copolymer derived from reactant containing plural unsaturation
99 .....With solid polymer derived from reactant containing plural unsaturation
100 .....With saturated Si-C or Si-H reactant or polymer thereof; or with solid copolymer derived from at least one Si-C or Si-H reactant wherein at least one of the reactants forming the solid copolymer is saturated; or with SPFI wherein at least one of the necessary ingredients contains a Si-C or Si-H bond or with a reaction product thereof; or with a SICP containing a Si-H or Si-C bond
101 .....Contacting with nonsilicon-containing SICP, nonsilicon-containing SPFI, or polymer thereof; or with two or more solid polymers
102 .....Si-H or Si-C reactant contains an atom other than C, H, O, or Si bonded to a carbon atom
103 .....Solid polymer from ethylenic reactants only is derived from heterocyclic reactant
104 .....Solid polymer from ethylenic reactants only is derived from reactant containing halogen atom
105 .....Solid polymer from ethylenic reactants only is derived from plural unsaturated hydrocarbon
106 .....Solid polymer from ethylenic reactants only is derived from unsaturated hydrocarbon
107 .....With saturated 1,2-epoxy reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom; or with solid copolymer derived from at least one saturated reactant and at least one unsaturated 1,2-epoxy reactant wherein the epoxy reactant contains more than one 1,2-epoxy group per mole
108 .....Contacting two or more solid polymers derived from ethylenic reactants only with a poly 1,2-epoxy-containing reactant; or contacting a solid polymer derived from ethylenic reactants only with a poly 1,2-epoxy-containing reactant and subsequently contacting with an additional polymer derived from ethylenic reactants only
109 .....With phenolic reactant or polymer thereof and is free of 1,2-epoxy groups
110 .....With reactant which is an aldehyde, aldehyde derivative, or polymer thereof, and which is free of an 1,2-epoxy group (included herein are alkylated methylol groups)
111 ....With reactant which is free
of an 1,2-epoxy group and
which contains a -N=C=X group
or polymer thereof (X is
chalcogen); or with a polyl
and a polycarboxylic acid or
reaction product thereof which
is free of an 1,2 epoxy group

111.5 ....With a reactant which is a
fatty acid glycerol ester, a
fatty acid or salt derived
from a naturally occurring
glyceride, tall oil, or a
fatty acid derived from tall
oil

112 ....Contacting polymer from
ethylenic reactants only with
ethylenic reactant wherein
said contacting is either
concurrent with or subsequent
to the contacting with the
saturated poly 1,2-epoxy
reactant

113 ....With nitrogen-containing
reactant, or wherein the poly
1,2-epoxy reactant contains a
nitrogen atom

114 ....With additional heterocyclic
reactant free of 1,2-epoxy
group

115 ....Poly 1,2-epoxy reactant
contains an atom other than C,
H, or O

116 ....Polymer derived from
ethylenic reactants only
derived from reactant
containing an atom other than
C, H, N, O, or halogen

117 ....Polymer derived from
ethylenic reactants only
derived from heterocyclic
reactant

118 ....Polymer derived from
ethylenic reactants only
derived from reactant
containing an alcohol or ether
group (includes phenols)

119 ....Polymer derived from
ethylenic reactants only
derived from reactant
containing a -COOH group

120 ....Polymer derived from
ethylenic reactants only
derived from nonaromatic
monoolesin

121 ....Polymer derived from
ethylenic reactants only
derived from reactant
containing a halogen atom

122 ....Polymer derived from
ethylenic reactants only
derived from unsaturated
hydrocarbon

123 ....With saturated -N=C=X (X is
chalcogen) reactant or polymer
thereof; or with solid
copolymer derived from at
least one -N=C=X reactant
wherein at least one of the
reactants forming the solid
copolymer is saturated; or
with SPFI wherein at least one
of the necessary ingredients
contains a -N=C=X group or
with a reaction product
thereof; or with SICP
containing a -N=C=X group

124 ....Blocked isocyanate reactant

125 ....Contacting two or more solid
polymers derived from
ethylenic reactants only with
a -N=C=X reactant or polymer
thereof; or contacting a
polymer derived from an
ethylenic reactant only with a
-N=C=X reactant or polymer
thereof and subsequently
adding thereto a solid polymer
derived only from ethylenic
reactants

126 ....Contacting solid polymer from
ethylenic reactants only with
ethylenic reactant wherein
said contacting is either
concurrent with or subsequent
to contacting of said solid
polymer with the -N=C=X
reactant or polymer thereof

127 ....Contacting with a -N=C=X-
containing reactant which has
been previously reacted with
an organic compound containing
a hydroxyl, amine, or -C(=O)-
O- group

128 ....-N=C=X reactant has been
previously reacted with an
organic amine

129 ....Solid polymer from ethylenic
reactants only derived from
halogen-containing reactant
130 .....Solid polymer from ethylenic reactants only derived from hydrocarbon reactant

131 .....Contacting with -N=C=X- containing reactant and with additional organic reactant containing a hydroxyl or amine group or polymer thereof

132 .....With saturated phenolic reactant or polymer thereof; or with solid copolymer derived from at least one phenolic reactant wherein at least one of the reactants forming the solid copolymer is saturated; or with SPFI wherein at least one of the necessary ingredients is a phenolic reactant or with a reaction product thereof; or with a SICP containing a phenolic group Si-H or Si-C bond

133 .....Contacting two or more solid polymers with a phenolic reactant; or contacting a solid polymer with a phenolic reactant and subsequently contacting the treated polymer with an additional solid polymer

133.5 .....With a reactant which is a fatty acid glycerol ester, a fatty acid or salt derived from a naturally occurring glyceride, tall oil, or a fatty acid derived from tall oil

134 .....Contacting with aldehyde or aldehyde-type reactant or polymer therefrom

135 .....At least two distinct phenols, phenol ethers, inorganic phenolates, or mixtures thereof prior to reaction with aldehyde or aldehyde-type reactant derived from tall oil

136 .....Phenolic reactant prior to contact with aldehyde or aldehyde-type reactant contains an atom other than C, H, or O

137 .....Phenolic reactant prior to contact with aldehyde or aldehyde-type reactant contains at least two aryl rings each of which contains phenolic substituents

138 .....With nonethylenic, nonaldehyde, or nonaldehyde-type reactant containing an atom other than C, H, or O

139 .....Solid polymer derived from ethylenic reactants only is derived from reactant containing at least two ethylenic groups

140 .....Phenolic reactant has at least two nuclear carbon atoms directly bonded to extracyclic carbon atoms which extracyclic carbon atoms are not part of a methylol group

141 .....Solid polymer from ethylenic reactants only is derived from both a reactant containing two ethylenic groups and an acyclic monoethylenic hydrocarbon

142 .....Solid polymer derived from ethylenic reactants only is derived from a nitrogen-containing reactant

143 .....Solid polymer derived from ethylenic reactants only is derived from a reactant containing a carboxylic acid or derivative thereof

144 .....Solid polymer derived from ethylenic reactants only is derived from a reactant containing at least one halogen atom

145 .....Solid polymer derived from ethylenic reactants only is derived from an acyclic hydrocarbon

146 .....With a -O-C(=O)-O-, -O-C(=O)-hal or hal-C(=O)-hal group-containing reactant or polymer thereof

147 .....Two or more diverse phenolic reactants; or phenolic reactant contains an atom other than C, H, or O
148 .....Solid polymer derived from ethylenic reactants only is derived from a reactant containing a carboxylic acid or derivative thereof

149 .....Contains ethylenic reactant other than from a solid polymer derived from ethylenic reactants only, e.g., reaction product from a phenol and unsaturated hydrocarbon, etc.

150 .....Phenolic reactant contains a phosphorus or sulfur atom or with phosphorus- or sulfur-containing reactant

151 .....Solid polymer derived from ethylenic reactants only is derived from a reactant containing at least one halogen atom

152 .....Solid polymer derived from ethylenic reactants only is derived from a reactant containing a polycyclic ring system or two or more ethylenic groups

153 .....With saturated ketone reactant or polymer thereof; or with solid copolymer derived from at least one ketone reactant wherein at least one of the reactants forming the solid copolymer is saturated; or with SFP I wherein at least one of the necessary ingredients is a ketone or with a reaction product thereof; or with an SICP containing a ketone group

154 .....With saturated aldehyde or aldehyde derivative (including methyol ethers or condensates) reactant or solid polymer thereof; or with solid copolymer derived from at least one aldehyde or aldehyde derivative reactant wherein at least one of the reactants forming the solid copolymer is saturated; or with a reaction product thereof; or with a SICP containing an aldehyde or aldehyde derivative

155 .....Contacting two or more solid polymers derived from ethylenic reactants only with an aldehyde or aldehyde-type reactant; or contacting a polymer derived from ethylenic reactant and subsequently contacting with a solid polymer derived from ethylenic reactants only

156 .....Contacting with a hydrocarbon and an aldehyde or aldehyde derivative as reactants at least one of which is saturated, their condensate or solid polymer thereof

157 .....Contacting with an amine, a material containing a N-C(=X)- or N-S(=O)- (X is chalcogen) reactant and an aldehyde or aldehyde derivative at least one of which is saturated, their condensate or solid polymer thereof

158 .....Reactant, condensate, or solid polymer contains an element other than C, H, N, or O; or wherein a coreactant is not an aldehyde or aldehyde-type reactant, alcohol, amine, or reactant containing a N-C(=O)- group

159 .....Reactant derived from alcohol containing an aryl group or eight or more carbon atoms

160 .....Solid polymer derived from ethylenic reactants only contains an element other than C, H, O, or N

161 .....Solid polymer derived from ethylenic reactants only derived from reactant containing a heterocyclic ring or fused-, bridged-ring system excluding an anhydride group which produces the fused- or bridged-ring system or heterocyclic ring

162 .....Solid polymer derived from ethylenic reactant only derived from reactant containing hydroxyl or ether group
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163 .....Solid polymer derived from ethylenic reactants only containing a carboxylic acid, ester, or anhydride group

164 .....Solid polymer derived from unsaturated hydrocarbon

165 ...With polycarboxylic acid or derivative and a polyol at least one of which is saturated, a condensate or solid polymer thereof; or with solid polymer derived from at least one polycarboxylic acid or derivative and at least one polyol wherein at least one of the reactants forming the solid polymer is saturated

166 ....Two or more solid polymers present other than derived from a polycarboxylic acid or derivative and a polyol

167 ....Polycarboxylic acid or derivative or polyol contains an atom other than C, H, or O; or wherein a polycarboxylic acid or derivative or polyol or condensate thereof is reacted with a reactant containing atoms other than C, H, or O prior to blending with the solid polymer; or wherein a coreactant with the polycarboxylic acid or derivative or polyol contains an atom other than C, H, or O

167.5 ....With a reactant which is a fatty acid glycerol ester, a fatty acid or salt derived from a naturally occurring glyceride, tall oil, or a fatty acid derived from tall oil

168 ....Polycarboxylic acid or derivative, polyol, or other coreactant contains an ethylenic group; or wherein a condensate thereof has been prepared from a polycarboxylic acid or derivative and a polyol and subsequently reacted with an ethylenic reactant

169 .....Solid polymer derived from ethylenic reactants only derived from at least one reactant containing an atom other than C, H, or O

170 .....Solid polymer derived from ethylenic reactants only derived from at least one reactant containing an oxygen atom

171 .....Solid polymer derived from ethylenic reactants only derived from at least one hydrocarbon reactant containing at least two ethylenic groups

172 ....Polycarboxylic acid or derivative contains three or more carboxylic acid groups or derivatives thereof; or wherein a polyol contains at least three hydroxyl groups

173 ....From two or more polyols

174 ....From two or more carboxylic acids or derivatives thereof

175 .....Solid polymer derived from ethylenic reactants only derived from at least one reactant containing an atom other than C, H, O, or Hal

176 ....Solid polymer derived from ethylenic reactants only derived from at least one reactant containing an oxygen atom

177 .....Solid polymer derived from ethylenic reactants only derived from unsaturated hydrocarbon

178 ...With a polycarboxylic acid or derivative and a polyamine or the corresponding salt thereof; or with a lactam; or with an aminocarboxylic acid; or with the corresponding polymers; and wherein the monomer or polymer was derived from at least one saturated reactant

179 ....Two or more solid polymers other than prepared from a polycarboxylic acid or derivative and a polyamine, a lactam, an aminocarboxylic acid or derivative, or from a polyamine salt of a polycarboxylic acid
180 ....Polycarboxylic acid or
derivative contains three or
more carboxylic acid groups;
or polyamine contains three or
more amino groups; or from an
amino containing
polycarboxylic acid or
derivative other than amine
solely in salt form; or from
polyamino carboxylic acid or
derivative other than wherein
amino groups are solely in
salt form
181 ....With ethylenically
unsaturated reactant; or
reactant contains a
heterocyclic ring other than
solely as a lactam or cyclic
anhydride of a polycarboxylic
acid
182 ....Solid polymer derived from
ethylenically unsaturated
reactant only is one derived
from a reactant containing a
heterocyclic ring and is other
than solely a cyclic anhydride
of a polycarboxylic acid
183 ....Solid polymer derived from
ethylenically unsaturated
reactant only is derived from
a reactant containing a
carboxylic acid or derivative
184 ....Solid polymer derived from
ethylenically unsaturated
hydrocarbon
185 ...With additional solid polymer
derived from at least one
nonethylenic reactant
186 ....At least one reactant which
forms additional polymer
contains a heterocyclic ring
187 .....Heterocyclic ring is an 1,2-
epoxy ring
188 ....At least one reactant which
forms additional polymer
contains a phosphorus atom
189 ....At least one reactant which
forms additional polymer
contains a sulfur atom
190 ....At least one reactant which
forms additional polymer
contains a carboxylic acid or
derivative
191 ....Polymer mixture of two or more
solid polymers derived from
ethylenically unsaturated
reactants only; or mixtures of
said polymer mixture with a
chemical treating agent; or
products or processes of
preparing any of the above
mixtures
192 ....Treating polymer or polymer
mixture with a chemical
treating agent other than
solid polymer
193 .....Agent contains an ethylenic
group
194 .....Agent is an organic material
195 .....Contains a metal atom
196 .....Agent contains a metal atom
197 .....Specified blending process
198 .....With subsequent physical
treatment
199 ....Solid polymer derived from
fluorine-containing ethylenic
reactant
200 .....Fluorine reactant contains
atoms other than C, H, or Hal
201 .....Solid polymer derived from
metal-containing ethylenic
reactant
202 .....Solid polymer derived from
reactant containing an
acytylenic group
203 .....Solid polymer derived from
ethylenic reactant containing
a heterocyclic nitrogen
204 .....Heterocyclic reactant
contains at least two hetero
atoms in the same ring and at
least one of which is nitrogen
205 .....Heterocyclic reactant is an
imide or lactam
206 .....Solid polymer derived from
reactant containing a
chalcogen atom (O, S, Se, Te)
as part of a heterocyclic ring
207 .....Heterocyclic reactant
contains anhydride group
208 .....Heterocyclic reactant
contains 1,2-epoxy group
209 .....Solid polymer derived from
reactant containing elements
other than C, H, O, N, S, or Cl
210 .....Solid polymer derived from
reactant containing a fused-
or bridged- ring system
...Fused- or bridged-ring reactant contains at least two ethylenic groups
212 .....Solid polymer derived from sulfur-containing reactant
213 .....Solid polymer derived from chlorine-containing reactant other than vinyl(idene) chloride
214 .....Halogenated hydrocarbon other than vinyl(idene) chloride
215 .....Halogenated hydrocarbon contains at least two ethylenic groups and is devoid of an aryl ring
216 .....Solid polymer derived from cycloaliphatic-containing reactant
217 .....Solid polymer derived from reactant containing nitrogen atom other than from (meth)acrylonitrile
218 .....Nitrogen reactant contains a carboxylic acid amide group
219 .....Solid polymer derived from reactant containing a phenolic group
220 .....Solid polymer derived from reactant containing a carbonyl group other than as part of a carboxylic acid or derivative
221 .....Solid polymer derived from reactant containing a carboxylic acid group
222 .....Solid polymer derived from reactant containing a carboxylic acid ester group
223 .....Ester contains an oxygen atom other than as part of a carboxylic acid ester group
224 .....Ester derived from both an unsaturated carboxylic acid and an unsaturated alcohol
225 .....Ester contains at least two carboxylic acid ester groups
226 .....Ester derived from polyol
227 .....Ester derived from an unsaturated carboxylic acid
228 .....At least two polymers derived from carboxylic acid ester reactants
229 .....Ester derived from an unsaturated alcohol
230 .....Polymer derived from nitrogen-containing reactant
231 .....Solid polymer derived from oxygen-containing reactant
232 .....Solid polymer derived from reactant containing at least two ethylenic groups and is devoid of aryl ring
233 .....Polymer derived from nitrogen-containing reactant
234 .....At least two polymers derived from nitrogen-containing reactants
235 .....Polymer derived from halogen-containing reactant
236 .....At least two polymers derived from reactants containing two or more ethylenic groups and devoid of an aryl ring
237 .....At least one of these polymers is derived from two or more reactants
238 .....Solid polymer derived from (meth)acrylonitrile
239 .....Solid polymer derived from vinyl(idene) chloride
240 .....Solid polymer derived from ethylene or propylene
241 .....Solid polymer derived from an aromatic hydrocarbon reactant
242 .....Polymer derived from ethylenic reactants only mixed with ethylenic reactant
243 .....Reactions with ethylenic reactants in two or more diverse phases, e.g., bulk, emulsion, melt, solution, etc.
244 .....Contacting a solid polymer derived from ethylenic reactants only with an ethylenic reactant in the presence of a specified material
245 .....Specified material contains transition metal atom
246 .....In presence of water
247 .....Contains nontransition metal atom
248 .....Specified material contains a carbon or hydrogen atom bonded directly to a metal atom
249 .....Metal atom is aluminum
...Metal atom is Group IA metal atom (Li, Na, K, Rb, Cs, Fr)

...Specified material contains a boron atom

...Specified material is a carbohydrate or is a solid synthetic polymer not intended to be in the final product

...Material contains a free alcohol group or is alcoholate thereof

...Specified material contains a silicon atom

...Specified material contains a phosphorus atom

...Specified material contains a heterocyclic ring

...Specified material contains a ketone group

...Specified material contains an ether group

...Specified material contains an organic nitrogen compound

...Organic nitrogen compound contains an azo group, i.e., -N=N-

...Specified material contains an organic sulfur compound

...Specified material contains a carboxylic acid or derivative

...Specified material contains a peroxy group, i.e., -O-O-

...Contains nonperoxy compound or inorganic peroxy compound

...Aromatic or cycloaliphatic peroxy compound

...Specified material contains an organic chalcogen compound

...Including step of preparing a polymer in the presence of a specified material and in the absence of a preformed polymer derived from ethylenic reactant only

...Specified material contains a transition metal atom

...Transition metal is other than Group IVB, VB, or VIB metal atom

...With nonmetal, nonhydrocarbon compound

...Specified material contains a Group IA atom in elemental form or bonded to hydrogen or carbon

...Contains an atom other than Group IA, C, or H

...Specified material contains a compound containing a peroxy group, i.e., -O-O-

...Ethylenic reactant contains a metal atom

...Ethylenic reactant contains an acetylenic group

...Ethylenic reactant contains a fluorine atom

...Ethylenic reactant contains a carbonate group

...Ethylenic reactant contains a carbamate group

...Ethylenic reactant contains nitrogen heterocycle, e.g., pyridine, diazines, etc.

...Block copolymer

...Nitrogen heterocycle contains at least two nitrogen atoms in the same ring

...Imide

...Lactam

...Ethylenic reactant contains a chalcogen heterocycle

...Cyclic anhydride

...Three-membered ring containing two carbon and one chalcogen atom

...Ethylenic reactant contains a phosphorus atom

...Ethylenic reactant contains atoms other than C, H, O, N, S, or Cl

...Ethylenic reactant contains a fused- or bridged-ring system

...Dicyclopentadiene-containing group

...Ethylenic reactant contains a sulfur atom

...Ethylenic reactant contains a chlorine atom and is other than vinyl(idene) chloride

...Ethylenic material contains a nitrogen atom and is other than (meth)acrylonitrile

...Block copolymer derived from nitrogen-containing reactant
Nitrogen atom is part of a nitrile group and is other than (meth)acrylonitrile.

Nitrogen atom is part of a carboxylic acid amide group.

Ethynolic reactant contains a cycloaliphatic group.

Ethynolic reactant contains an oxygen atom.

Block copolymer derived from oxygen-containing reactant.

Oxygen atom is part of a ketone or ketene group.

Oxygen atom is part of a carboxylic acid group.

Unsaturated fatty acid derived from a naturally occurring glyceride, tall oil, or an unsaturated fatty acid derived from tall oil.

Ester contains an oxygen atom other than as a carboxylic acid ester group.

Ester contains at least two carboxylic acid ester groups.

Ester is derived from a polyol.

Ester is derived from an unsaturated alcohol.

Ester is derived from an unsaturated carboxylic acid and an unsaturated alcohol.

Ester is derived from an unsaturated carboxylic acid.

Ester derived from an unsaturated carboxylic acid is reacted in the presence of a solid polymer.

Ester reactant derived from an unsaturated carboxylic acid is reacted in the presence of a solid polymer substrate derived from a polyene hydrocarbon.

Ester reactant derived from an unsaturated alcohol is reacted in the presence of a solid polymer.

Oxygen atom is part of an ether group.

Ethynolic reactant contains at least two unsaturated groups and is devoid of an aromatic group.

Block copolymer derived from reactant containing at least two unsaturated groups and is free of an aromatic group.

Ethynolic reactant reacted in the presence of a solid polymer substrate derived from reactant containing two unsaturated groups and is devoid of an aromatic group.

Ethynolic reactant is an aromatic hydrocarbon.

Ethynolic reactant is vinyl(idene) chloride.

Block copolymer derived from vinyl(idene) chloride.

Ethynolic reactant is acyclic hydrocarbon.

Acyclic hydrocarbon contains five or more carbon atoms.

Block copolymer derived from acyclic hydrocarbon containing five or more carbon atoms.

Acyclic hydrocarbon is propylene.

Block copolymer derived from propylene.

Acyclic hydrocarbon is ethylene.

Chemically after treated solid polymers derived from ethylenically unsaturated monomers only.

Polymer derived from fluorine monomer.

Vulcanized or crosslinked in presence of chemical treating agent.

Halogen containing chemical treating agent; or dehalogenated.

Polymer derived from silicon monomer.

Polymer derived from monomer containing atom other than: C, H, N, O, S, halogen or group IA or IIA carboxylate.

Polymer derived from monomer containing nitrogen atom as part of a heterocyclic ring.
<table>
<thead>
<tr>
<th>Class</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>326.8</td>
<td>Oxygen atom in ring or bonded directly to the nuclear carbon of ring monomer</td>
</tr>
<tr>
<td>326.9</td>
<td>Lactam monomer, e.g., vinyl pyrrolidone, etc.</td>
</tr>
<tr>
<td>327.1</td>
<td>6 membered ring containing 5 carbons and 1 nitrogen, monomer, e.g., vinyl pyridine, etc.</td>
</tr>
<tr>
<td>327.2</td>
<td>Polymer derived from monomer containing chalcogen as part of heterocyclic ring other than solely as cyclic anhydride of ethylenically unsaturated dicarboxylic acid</td>
</tr>
<tr>
<td>327.3</td>
<td>Three membered chalcogen ring monomer, e.g., oxirane, etc.</td>
</tr>
<tr>
<td>327.4</td>
<td>Polymer derived from carboxylic acid anhydride monomer</td>
</tr>
<tr>
<td>327.5</td>
<td>Sulfur containing chemical treating agent</td>
</tr>
<tr>
<td>327.6</td>
<td>Nitrogen containing chemical treating agent other than unsubstituted ammonium as sole nitrogen</td>
</tr>
<tr>
<td>327.7</td>
<td>Esterified, i.e., preparation of COOR linkage</td>
</tr>
<tr>
<td>327.8</td>
<td>Hydrolyzed; neutralized; or metal containing chemical treating agent</td>
</tr>
<tr>
<td>327.9</td>
<td>Polymer from unsaturated petroleum hydrocarbon fraction as monomer</td>
</tr>
<tr>
<td>328.1</td>
<td>Polymer derived from acetylenic monomer</td>
</tr>
<tr>
<td>328.2</td>
<td>Polymer derived from monomer containing nitrogen other than: unsubstituted ammonium, acrylonitrile, acrylamide, methylocrylamide and the corresponding methacryl materials</td>
</tr>
<tr>
<td>328.3</td>
<td>At least one monomer containing two or more ethylenic groups</td>
</tr>
<tr>
<td>328.4</td>
<td>Monomer containing two or more nitrogen atoms, or two or more nitrogen containing monomers</td>
</tr>
<tr>
<td>328.5</td>
<td>Polymer derived from sulfur monomer</td>
</tr>
<tr>
<td>328.6</td>
<td>Polymer derived from ketone monomer</td>
</tr>
<tr>
<td>328.7</td>
<td>Polymer derived from aldehyde monomer</td>
</tr>
<tr>
<td>328.8</td>
<td>Polymer derived from alcohol monomer</td>
</tr>
<tr>
<td>328.9</td>
<td>Polymer derived from ether monomer</td>
</tr>
<tr>
<td>329.1</td>
<td>Polymer derived from acrylonitrile or methacrylonitrile monomer</td>
</tr>
<tr>
<td>329.2</td>
<td>Interpolymers</td>
</tr>
<tr>
<td>329.3</td>
<td>Contains monomer having two or more ethylenic groups</td>
</tr>
<tr>
<td>329.4</td>
<td>Polymer derived from acrylamide or methacrylamide monomer</td>
</tr>
<tr>
<td>329.5</td>
<td>Polymer derived from carboxylic acid or derivative monomer other than: vinyl acetate; or acrylic-or-methacrylic-acid, or derivatives</td>
</tr>
<tr>
<td>329.6</td>
<td>Butene dioic acid or derivative monomer</td>
</tr>
<tr>
<td>329.7</td>
<td>Polymer derived from acrylic or methacrylic acids, acid halides or salt monomers</td>
</tr>
<tr>
<td>329.8</td>
<td>Sulfur or phosphorus containing chemical treating agent</td>
</tr>
<tr>
<td>329.9</td>
<td>Nitrogen containing chemical treating agent</td>
</tr>
<tr>
<td>330.1</td>
<td>Esterified, i.e., preparation of COOR linkage</td>
</tr>
<tr>
<td>330.2</td>
<td>Hydrolyzed; neutralized; or metal containing chemical treating agent</td>
</tr>
<tr>
<td>330.3</td>
<td>Polymer derived from acrylic or methacrylic esters, or vinyl acetate monomer</td>
</tr>
<tr>
<td>330.4</td>
<td>Sulfur or phosphorus containing chemical treating agent</td>
</tr>
<tr>
<td>330.5</td>
<td>Nitrogen containing chemical treating agent</td>
</tr>
<tr>
<td>330.6</td>
<td>Alcoholized; transesterified; hydrolyzed; or metal containing chemical treating agent; e.g., saponified, etc.</td>
</tr>
<tr>
<td>330.7</td>
<td>Polymer derived from halogen monomer</td>
</tr>
<tr>
<td>330.8</td>
<td>At least one monomer contains two or more ethylenic groups</td>
</tr>
</tbody>
</table>
330.9 .....Vulcanized or crosslinked, in the presence of a chemical treating agent, e.g., cured, etc.
331.1 .....Nitrogen containing chemical treating agent
331.2 .....Halogen containing chemical treating agent
331.3 .....Nitrogen containing chemical treating agent
331.4 .....Monomer contains chlorine
331.5 .....Vinyl chloride or vinylidene chloride
331.6 .....Halogen containing chemical treating agent
331.7 .....Ethylene-propylene terpolymer, e.g., EPT, EPDM, EPR, etc.
331.8 .....Sulfur containing chemical treating agent
331.9 .....Polymer derived from monomer containing at least two ethylenic groups or diene rubber
332.1 .....Monomer contains non-conjugated diene group or at least one fused or bridged ring or at least one cycloaliphatic structure
332.2 .....Divinyl benzene
332.3 .....Halogen containing chemical treating agent
332.4 .....Sulfur containing chemical treating agent
332.5 .....Vulcanized in the presence of a chemical treating agent, e.g., cured, crosslinked, etc.
332.6 .....Sulfur containing chemical treating agent
332.7 .....Nitrogen containing chemical treating agent
332.8 .....Interpolymer with aliphatic hydrocarbon monomer (includes additional diene monomer)
332.9 .....Interpolymer with aromatic hydrocarbon
333.1 .....Isoprene or diene rubber other than butadiene rubber
333.2 .....Butadiene homopolymer
333.3 .....Polymer derived from aromatic hydrocarbon monomer, e.g., styrene, etc.
333.4 .....Halogenated polymer
333.5 .....Sulfur containing chemical treating agent
333.6 .....Nitrogen containing chemical treating agent
333.7 .....Polymer derived from acyclic hydrocarbon monomer only
333.8 .....Air, elemental oxygen, ozone or peroxide chemical treating agent
333.9 .....Sulfur containing chemical treating agent
334.1 .....Halogenated polymer
337 .....Chemical treating agent contains boron or boron-containing compound other than boron trihalide or nonmetal complex thereof
338 .....Chemical treating agent contains elemental hydrogen or an elemental hydrogen-liberating compound, e.g., hydrogenation, etc.
339 .....Treating in the presence of an elemental metal or inorganic metallic compound
340 .....Chemical treating agent contains a phosphorus atom
341 .....Contains a sulfur atom
342 .....Chemical treating agent contains a silicon atom
343 .....Chemical treating agent contains a sulfur atom
344 .....Inorganic sulfur compound contains sulfur atom bonded to at least two oxygen atoms
345 .....With peroxide, ozone, or free oxygen
346 .....With sulfur-free organic compound
347 .....Sulfur-free organic compound contains heterocyclic nitrogen
348 .....Sulfur-containing heterocyclic compound
349 .....Heterocyclic ring contains sulfur and nitrogen atoms
350 .....Mercapton or mercaptide
351 .....Organic compound contains sulfur and nitrogen atoms
352 .....One or more sulfur atoms of the nitrogen-containing compound are double bonded to carbon
353 .....Sulfur compound contains sulfur atom bonded to at least two oxygen atoms, e.g., sulfonate, etc.
354 ....Elemental sulfur or inorganic sulfur compound
368 ......Metal oxide
355 ....Chemical treating agent contains hydrogen halide, elemental halogen, organic halogen-containing compound, or compound containing only halogen atoms
369 ......Metal hydroxide
370 ....Contains Group IB (Cu, Ag, Au), IIB (Zn, Cd, Hg), IIIA (Al, Ga, In, Tl), IV (Ti, Zr, Hf, Ge, Sn, Pb), and VII (Fe, Co, Ni, Ru, Rh, Pd, Os, Ir, Pt) elemental metal or compound thereof
356 .......Treating in the presence of elemental halogen
371 ......Elemental metal or inorganic compound thereof
357 .......Treating in the presence of a metal or metal-containing compound
372 ......Metal oxide
358 .......Treating in the presence of water
373 .........Group IIB metal (Zn, Cd, Hg) oxide
359.1 .......Treating in the presence of organic halogen-containing compound
374 ......Chemical treating agent is a nitrogen-containing compound
359.2 .......Organic halogen-containing compound contains a hetero ring
375 ......Contains nitrogen atom in a heterocyclic ring
359.3 .......Organic halogen-containing compound contains oxygen
376 ......Nitrogen-containing compound has at least one nitrogen-to-nitrogen bond
359.4 ......Organic halogen-containing compound contains a (C=O)O group or an aromatic group
377 ......Nitrogen-containing compound contains at least one nitrile or isonitrile group; or a nitrogen-to-oxygen bond which is other than as an amine or ammonium salt
359.5 ......Organic halogen-containing compound contains only carbon, hydrogen, and halogen
378 ......Ammonia, ammonium hydroxide, or salts thereof
359.6 ......Organic halogen-containing compound contains an aromatic group
379 ......Organic amine
360 ......Chemical treating agent contains elemental metal or metal-containing compound
380 ......Amine contains a hydroxyl group
361 ......Two or more diverse elemental metals or compounds thereof; or same metal in two or more distinct compounds; or diverse metals in same compound
381 ......Three or more amine groups
362 ......Elemental metal or inorganic compound thereof only
382 ......Two amine groups
363 ......Aluminum or Group IIB (Zn, Cd, Hg) metal or compound thereof
383 ......Chemical treating agent contains elemental oxygen or oxygen-containing compound
364 ......Organometallic compound and elemental metal or inorganic compound thereof
384 ......Oxygen compound contains at least one alcohol group
365 ......Aluminum metal or compound thereof
385 ......Oxygen compound contains an ether group
366 ......Contains Group IA (Li, Na, K, Rb, Cs, Fr) or Group IIA (Be, Mg, Ca, Sr, Ba, Ra) elemental metal or compound thereof
386 ......Oxygen compound is a carboxylic acid, ester, anhydride, or lactone thereof
367 ......Elemental metal or inorganic metal compound
387 ......Oxygen compound contains a peroxy group (-O-O-)
388 ......Specified oxygen-containing compound is air, elemental oxygen, or ozone
389 ......Solid polymer derived from reactant containing atoms other than C, H, N, Si, P, chalcogen, halogen, or an alkali or alkaline earth metal in salt form
390. Solid polymer derived solely from phenolic reactants wherein none of the reactants contains a plurality of methylol groups or derivatives thereof.

404. Mixed with ethylenically unsaturated reactant or polymer derived therefrom.

405. Mixed with aldehyde or aldehyde derivative reactant or polymer derived therefrom.

391. Mixed with ethylenically unsaturated reactant or polymer derived therefrom.

406. Contains amine- N-C(=X)-, or N-S(=O)- containing reactant (X is chalcogen).

392. Unsaturated aromatic reactant or polymer thereof.

407. Mixed with 1,2-epoxy reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom.

393. Mixed with silicon-containing reactant or polymer derived therefrom.

408. Mixed with carboxylic acid or derivative or polymer derived therefrom.

394. Mixed with -O-C(=O)-O-, hal-C(=O)-O-, or hal-C(=O)-hal containing reactant or polymer derived therefrom.

409. Solid polymer derived only from 1,2-epoxy reactants containing only C, H, and O.

395. Mixed with -N=C=X-containing reactant or polymer derived therefrom (X is a chalcogen).

410. Solid polymer derived from hetero-O-cyclic compounds as sole reactants wherein at least one reactant contains a hetero-O-ring other than solely as a 1,2-epoxy or anhydride, and wherein none of the reactants contains a plurality of methylol groups or derivatives thereof.

396. Mixed with 1,2-epoxy containing reactant or polymer thereof, or wherein polymer contains at least one 1,2-epoxy group.

411. Mixed with carboxylic acid or derivative reactant or polymer derived therefrom.

397. Mixed with carboxylic acid or derivative reactant or polymer derived therefrom.

412. Mixed with unsaturated reactant or polymer derived therefrom.

398. Solid polymer derived from aldehyde, aldehyde derivative, or liquid polymer thereof as sole reactant and wherein none of the reactants contains a plurality of methylol groups or derivatives thereof.

413. Mixed with -O-C(=O)- or hal-C(=O)- reactant or polymer derived therefrom.

399. Mixed with -N=C=X-containing reactant or polymer derived therefrom (X is a chalcogen).

414. Mixed with aldehyde or aldehyde derivative or polymer derived therefrom.

400. Mixed with carboxylic acid or derivative reactant or polymer derived therefrom.

415. Solid polymer derived from carboxylic acid cyclic ester, e.g., lactone, etc.

401. Mixed with ethylenically unsaturated reactant or polymer derived therefrom.

416. Solid polymer derived from hydrocarbon or halogenated hydrocarbon as sole reactant or mixture thereof.

402. Solid polymer derived from aldehyde or derivative containing halogen.

403. Solid polymer is derived from 1,2-epoxy compound containing only one 1,2 epoxy group as sole reactant and wherein none of the reactants contains a plurality of methylol groups or derivatives thereof.
417  ..Solid polymer derived from heterocyclic materials as sole reactants wherein each of the heterocyclic materials contains a hetero ring other than solely as a lactam, 1,2-epoxy or carboxylic acid anhydride and wherein none of the reactants contains a plurality of methylol groups or derivatives thereof

418  ..Solid polymer derived from at least one carboxylic acid or derivative

419  ...Solid polymer derived from at least one lactam; from an amino carboxylic acid or derivative; or from a polycarboxylic acid or derivative

420  ....Solid polymer derived from an amino carboxylic acid or derivative; from a polyanine and a polycarboxylic acid or derivative; from at least one lactam; or from a polyanine salt of a polycarboxylic acid

420.5 ....Solid polymer derived from a polycarboxylic acid which is a dimer or trimer of an aliphatic acyclic monocarboxylic acid having at least ten carbon atoms or adducts of unsaturated aliphatic acyclic monocarboxylic acids, having ten carbon atoms with an alpha, beta ethylenically unsaturated carboxylic acid or derivative

421  .....Solid polymer derived from reactant containing ethylenic unsaturation

422  ......Solid polymer derived from imide reactant

423  ..Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom

424  .....Mixed with -N=C=X reactant or polymer derived therefrom (X is chalcogen)

425  .....Mixed with polycarboxylic acid or derivative and polyhydroxy reactant or polymer therefrom

426  .....Mixed with ethylenically unsaturated reactant or polymer therefrom

427  .....Mixed with aldehyde or aldehyde derivative reactant or polymer thereof

428  ......Contains amine-, N-C(=X)-, or N-S(=O)- containing reactant or polymer thereof (X is chalcogen)

429  ......Contains phenolic reactant or polymer thereof

430  .....Mixed with a reactant containing a single 1,2-epoxy group per mole or polymer derived therefrom

431  ......Mixed with silicon containing reactant or polymer derived from

432  ......Mixed with additional polycarboxylic acid and a polyanime; amino carboxylic acid or derivative; polyanine salt of a polycarboxylic acid; lactam; or polymer derived therefrom

433  ......Mixed with O-C(=O)-O-, hal-C(=O)-, or hal-C(=O)-hal reactant or polymer derived therefrom

434  ......Solid polymer derived from hydroxyl group-containing reactant

435  ......Solid polymer derived from compound containing more than two amine groups

436  ......Solid polymer derived from compound containing more than two carboxylic acid groups or derivatives thereof

437  ......Solid polymer derived from polyhydroxy reactant and polycarboxylic acid or derivative reactant; or derived from di- or higher ester of a polycarboxylic acid as sole reactant

438  ......Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom
Mixed with O-C(=O)-O-, hal-C(=O)-O-, or hal-C(=O)-hal containing reactant or polymer derived therefrom; or wherein solid polymer is derived from a hal-C(=O)-hal, O-C(=O)-O-, or hal-C(=O)-O-, a polycarboxylic acid or derivative and a polyhydroxy reactant

Mixed with -N=C=X reactant or polymer derived therefrom (X is chalcogen); or wherein solid polymer is derived from a -N=C=X reactant and also a polycarboxylic acid or derivative and a polyhydroxy reactant

Blocked isocyanate reactant or polymer derived therefrom

Silicon, phosphorus, or halogen containing reactant or polymer derived therefrom

Heterocyclic containing reactant or polymer derived therefrom other than as an anhydride of a polycarboxylic acid

Sulfur, selenium, or tellurium containing reactant or polymer derived therefrom other than X in a N=C=X group or polymer derived thereof

Nitrogen containing reactant other than N in a N=C=X group or polymer thereof

Reactant contains ethylenic unsaturation

N=C=X reactant or polymer derived therefrom contains ethylenic unsaturation

Polyhydroxy reactant contains ethylenic unsaturation

Fused or bridged ring system containing, or non-aryl carboxylic ring containing reactant

Reactant contains an aryl group bonded to an oxygen atom

N=C=X reactant or polymer derived therefrom contains plural ether linkages

N=C=X reactant or polymer derived therefrom contains at least one aryl group

Solid polymer derived from polycarboxylic acid or derivative and a polyhydroxy compound is derived from a hydroxy containing carboxylic acid or derivative reactant

Solid polymer derived from polycarboxylic acid or derivative and a polyhydroxy compound wherein said polycarboxylic acid or derivative contains three or more carboxylic acid or derivative groups

Solid polymer derived from two or more polycarboxylic acid or derivatives and a single polyhydroxy compound

Mixed with aldehyde or aldehyde derivative reactant or polymer derived therefrom

Contains phenolic reactant or polymer thereof

Contains an amine-, N-C(=X)=, or N-S(=O)-containing reactant or polymer thereof (X is chalcogen)

Mixed with polycarboxylic acid or derivative and polyhydroxy reactant or polymer thereof

Solid polymer derived from or system contains a reactant which is a fatty acid glycerol ester, a fatty acid or salt derived from a naturally occurring glyceride, tall oil, or fatty acid derived from tall oil

Mixed with ethylenically unsaturated reactant or polymer thereof

Mixed with silicon-containing reactant or polymer derived therefrom
447 .....Solid polymer derived from polycarboxylic acid or derivative and a polyhydroxy compound derived from reactant containing ethylenic unsaturation

448 .....Solid polymer derived from polycarboxylic acid or derivative and polyhydroxy compound is derived from two or more polycarboxylic acids or derivatives

449 .....Mixed with 1,2-epoxy reactant or polymer derived therefrom

450 .....Solid polymer derived from hydroxy-containing carboxylic acid or derivative reactant

451 .....Solid polymer derived from carboxylic acid or derivative derived from ethylenically unsaturated reactant

452 .....Solid polymer derived from -N=C=X reactant (X is chalcogen)

453 .....Solid polymer derived from -N=C=X reactant and polyhydroxy reactant

454 .....Mixed with carboxylic acid or derivative reactant or polymer derived therefrom; or with heterocyclic reactant containing more than one heterocyclic ring; or polymer therefrom

455 .....Mixed with ethylenically unsaturated reactant or polymer therefrom

456 .....Mixed with aldehyde or aldehyde derivative reactant or polymer therefrom

457 .....Mixed with -N=C=X reactant or polymer therefrom

458 .....Contains polyhydroxy reactant; or additional polymer derived from -N=C=X and polyhydroxy reactant

459 .....Solid polymer derived from -N=C=X reactant and polyhydroxy reactant also derived from polyamine reactant

460 .....Solid polymer derived from -N=C=X reactant and polyhydroxy reactant containing an ether group

461 .....Solid polymer derived from O-C(=O)-O- or hal-C(=O)- containing reactant

462 .....Solid polymer derived from O-C(=O)-O- or hal-C(=O)- containing reactant and polyhydroxy reactant

463 .....Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom

464 .....Mixed with silicon-containing reactant or polymer derived therefrom

465 .....Mixed with aldehyde or aldehyde derivative reactant or reaction product therefrom

466 .....Mixed with polycarboxylic acid or derivative and polyhydroxy reactants or polymer thereof; or di- or higher ester of polycarboxylic acid as sole reactant or polymer therefrom

467 .....Mixed with nitrogen-containing reactant or polymer therefrom

468 .....Mixed with ethylenically unsaturated reactant or polymer therefrom

469 .....Solid polymer derived from O-C(=O)-O- or hal-C(=O)- and polyhydroxy reactant derived from at least two polyhydroxy reactants

470 .....Solid polymer derived from O-C(=O)-O- or hal-C(=O)- reactant and polyhydroxy reactant contains an atom other than C, H, O, or halogen bonded to a C(=O) group

471 .....Solid polymer derived from ketone reactant and wherein none of the reactants forming the solid polymer contains an aldehyde group or is an aldehyde-type reactant or polymer derived therefrom
Solid polymer derived from aldehyde or aldehyde-type reactant and wherein none of the reactants forming the solid polymer contains a phenol-, amine-, -N=C=X, -N-S(=O)- or ketone group or a condensate thereof except when an amine group appears in hexamethylenetetramine or a derivative thereof (X is chalcogen)

Solid polymer derived from aldehyde or aldehyde-type reactant containing atoms other than C, H, or O and wherein when hexamethylenetetramine or derivative is a reactant, there is additionally present a reactant containing atoms other than C, H, or O

Solid polymer derived from silicon-containing reactant

Mixed with aluminum- or heavy metal-containing reactant or polymer thereof

Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom

Mixed with silicon-containing reactant or polymer thereof

Wherein one of said silicon materials contains Si-H bond

Mixed with ethylenically unsaturated reactant or polymer derived therefrom

Solid polymer or specified intermediate condensation product derived from at least one phenolic reactant and at least one aldehyde or aldehyde-type reactant or polymer thereof

Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom

Wherein phenolic-aldehyde or phenolic-aldehyde-type solid polymer or SICP contains nitrogen or ethylenic unsaturation

Mixed with additional aldehyde or aldehyde-type reactants which are part of a SPFI system or polymer thereof

Additional material is a hydrocarbon-aldehyde- or hydrocarbon-aldehyde-type polymer, condensate, or reactants therefrom

Additional material is ketone-aldehyde- or ketone-aldehyde-type polymer, condensate, or reactants thereof

Contains nitrogen-containing reactant or polymer therefrom

Contains sulfur-containing reactant or polymer therefrom

Contains nitrogen reactant or polymer therefrom

With specified material

Specified material contains nitrogen

With silicon-containing reactant or polymer derived therefrom

With carboxylic acid or derivative reactant or polymer derived therefrom

With additional aldehyde or aldehyde-type reactant or polymer thereof which is distinct from aldehyde or aldehyde-type reactant used in forming solid polymer or SICP; or with nitrogen-containing reactant

Wherein phenolic-aldehyde or phenolic-aldehyde-type solid polymer or SICP contains nitrogen or ethylenic unsaturation

Mixed with additional aldehyde or aldehyde-type reactants which are part of a SPFI system or polymer thereof

Additional material is a hydrocarbon-aldehyde- or hydrocarbon-aldehyde-type polymer, condensate, or reactants therefrom

Additional material is ketone-aldehyde- or ketone-aldehyde-type polymer, condensate, or reactants thereof

Contains nitrogen-containing reactant or polymer therefrom
495 ....Additional material is amine-, N-C(=X)-, or N-S(=O)-containing reactant- aldehyde or -aldehyde derivative polymer, condensate, or reactants therefrom (X is chalcogen)

496 ....Contains 1,2-epoxy-containing reactant or polymer derived therefrom

497 ....Heterocyclic nitrogen reactant or polymer therefrom, e.g., melamine, etc.

498 ....-N-C(=X)-N-containing reactant or polymer, e.g., urea, etc. (X is chalcogen)

499 ....Contains sulfur reactant or polymer therefrom

500 ....Wherein the phenolic-aldehyde- or phenolic-aldehyde-type solid polymer or SICP is derived from a reactant or polymer containing an atom other than C, H, or O

501 ....Additional phenol-aldehyde- or -aldehyde-type polymer, condensation product or reactants therefrom

501.5 ...Mixed with reactant which is a fatty acid glycerol ester, a fatty acid or salt derived from a naturally occurring glyceride, tall oil, or a fatty acid derived from tall oil; or the reaction product of any of the above with a polycarboxylic acid or ester forming derivative and a polyhydroxy compound

502 ...Mixed with unsaturated reactant or polymer derived therefrom

503 ...Mixed with aldehyde or aldehyde-type chemical treating agent

504 ...Mixed with nitrogen-containing chemical treating agent

505 ...Mixed with sulfur-containing chemical treating agent

506 ...Mixed with a boron- or polyvalent metal-containing chemical treating agent

507 ...Mixed with an 1,2-epoxy-containing chemical treating agent

508 ...Mixed with carboxylic acid- or derivative-containing chemical treating agent

509 ..Solid polymer or SICP derived from at least one amine-, N-C(=X)- or N-S(=O) containing reactant and at least one aldehyde or aldehyde-type reactant (X is chalcogen)

510 ...Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom

511 ....With specified material

512 ....Amine-, N-C(=X)- or N-S(=O)-containing reactant (X is chalcogen) aldehyde or a -aldehyde-type condensation product or polymer thereof contains atoms other than C, H, O, N, or S

513 ....With sulfur-containing reactant or polymer therefrom

514 ....With carboxylic acid or derivative reactant or polymer derived therefrom

515 ...Mixed with additional aldehyde or aldehyde-type solid polymer; or SICP; or aldehyde or aldehyde-type reactant

516 ....Contains a phenolic reactant or polymer thereof

517 ....Amine-, N-C(=X)- or N-S(=O)-containing reactant-aldehyde or -aldehyde-type polymer or condensation product contains atoms other than C, H, O, N, or S (X is chalcogen)

517.5 ...Mixed with a reactant which is a fatty acid glycerol ester, a fatty acid or salt derived from a naturally occurring glyceride, tall oil, or a fatty acid derived from tall oil; or the reaction product of any of the above with a polycarboxylic acid or ester forming derivative and a polyhydroxy compound

518 ...Mixed with unsaturated reactant or polymer derived therefrom

519 ...Mixed with carboxylic acid or derivative reactant or polymer therefrom
520 ....Contains -N≡C=X reactant or polymer therefrom (X is chalcogen)

521 ..Solid polymer or SICP derived from at least one ketone reactant and at least one aldehyde or aldehyde derivative reactant

522 ...Mixed with reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom

523 ..Solid polymer contains more than one 1,2-epoxy group or is derived from reactant containing at least one 1,2-epoxy group

524 ...Mixed with a reactant containing more than one 1,2-epoxy group per mole or polymer derived therefrom

525 ....Wherein at least one of said 1,2-epoxy reactants or polymer derived therefrom contains atoms other than C, H, or O

526 .....Contains nitrogen atom

527 .....Contains halogen atom

528 ...Mixed with -N≡C=X-containing reactant or polymer therefrom

529 ...Mixed with unsaturated reactant or polymer derived therefrom

530 ....Wherein unsaturated reactant is a carboxylic acid or derivative or polymer derived therefrom

531 .....Wherein unsaturated reactant contains only one free carboxyl group

532 .....Contains polyol reactant or polymer derived therefrom

533 ...Mixed with carboxylic acid or derivative reactant or polymer derived therefrom

534 ..Solid polymer derived from phenolic reactant

535 ..Solid polymer derived from sulfur-containing reactant

536 ...Solid polymer derived from sulfur dioxide and ethylenically unsaturated reactant

537 ...Solid polymer derived from alkali metal sulfide and halogenated aromatic reactant, e.g., polyarylene sulfide, etc.

538 ..Solid polymer derived from phosphorus-containing reactant

539 ..Solid polymer derived from at least one unsaturated reactant and at least one saturated reactant

540 ..Solid polymer derived from nitrogen-containing reactant

CROSS-REFERENCE ART COLLECTIONS

901 RADIAL BLOCK
902 CORE-SHELL
903 INTERPENETRATING NETWORK
904 ACTIVATION OF PREFORMED POLYMER IN ABSENCE OR MONOMER, FOR SUBSEQUENT POLYMERIZATION THEREON (E.G., TRAPPED RADICALS)

905 POLYPHENYLENE OXIDE
906 POLYSULFONE
907 POLYCARBODIIMIDE
908 POLYMER CONTAINING A HYDANTOIN GROUP

909 POLYMER HAVING A HETEROCYCLIC RING WITH AT LEAST THREE DIFFERENT ELEMENTS WITHIN THE RING

910 POLYMER FROM ETHYLENIC MONOMERS ONLY, HAVING TERMINAL UNSATURATION
911 POLYMER FROM ETHYLENIC MONOMERS ONLY, HAVING TERMINAL FUNCTIONAL GROUP OTHER THAN UNSATURATION

912 POLYMER FROM NONETHYLENIC MONOMERS ONLY, HAVING PENDANT UNSATURATED GROUP

913 POLYMER FROM MONOMERS ONLY HAVING PENDANT GLYCIDYL GROUP

914 POLYMER FROM CONJUGATED DIENE HYDROCARBON OR HALOHYDROCARBONS HAVING MORE THAN 50 PER CENT 1,2-MICROSTRUCTURE

915 POLYMER FROM MONOETHYLENIC CYCLIC HYDROCARBON
916 POLYMER FROM ETHYLENIC MONOMERS ONLY, HAVING CATIONIC GROUP
917 POLYMER FROM AT LEAST ONE NONETHYLENIC MONOMER HAVING CATIONIC GROUP
918 POLYMER PREPARED BY CATIONIC POLYMERIZATION IONOMER RESINS (CARBOXYLATE SALT-CONTAINING COPOLYMERS)
919 POLYURETHANE HAVING TERMINAL ETHYLENIC UNSATURATION POLYESTER HAVING TERMINAL ETHYLENIC UNSATURATION OTHER THAN POLYESTERURETHANES
920 POLYURETHANE HAVING TERMINAL ETHYLENIC UNSATURATION POLYESTER HAVING TERMINAL ETHYLENIC UNSATURATION POLYURETHANE HAVING TERMINAL ETHYLENIC UNSATURATION POLYESTER HAVING TERMINAL ETHYLENIC UNSATURATION
921 POLYURETHANE HAVING TERMINAL ETHYLENIC UNSATURATION OTHER THAN POLYURETHANES POLYESTER HAVING TERMINAL ETHYLENIC UNSATURATION OTHER THAN POLYURETHANES
922 POLYEPOXIDE POLYMER HAVING BEEN REACTED TO YIELD TERMINAL ETHYLENIC UNSATURATION AMINOPLAST HAVING TERMINAL ETHYLENIC UNSATURATION PHENOPLAST HAVING TERMINAL ETHYLENIC UNSATURATION
923 POLYAMIDE CONTAINING A PLURALITY OF OXYALKYLENE GROUPS POLYAMIDE ADMIXED WITH OXYALKYLENE-CONTAINING POLYMER POLYMIDE OR POLYAMIDE-ACID FORMED BY CONDENSATION OF A POLYAMINE WITH A POLYCARBOXYLIC ACID HAVING AT LEAST THREE CARBOXYL GROUPS OR DERIVATIVES THEREOF
924 POLYAMIDE FORMED BY ADDITION OF POLYAMINE TO AN UNSATURATED BIS-IMIDE REACTION PRODUCT OF A POLYHYDRIC PHENOL AND EPICHLOROHYDRIN OR DIEPOXIDE, HAVING A MOLECULAR WEIGHT OF OVER 5,000 (E.G., PHENOXY RESINS)
925 BLEND OF STATED INCOMPATIBILITY BLEND OF MATCHED OPTICAL PROPERTIES BLEND OF LIMITED GAS PERMEABILITY POWDERED COATING COMPOSITION MATRIX ADMIXED WITH SYNTHETIC FIBER
926 BLEND OF SYNTHETIC FIBER
927 BLEND OF STATED INCOMPATIBILITY BLEND OF MATCHED OPTICAL PROPERTIES BLEND OF LIMITED GAS PERMEABILITY POWDERED COATING COMPOSITION MATRIX ADMIXED WITH SYNTHETIC FIBER
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