

CPC COOPERATIVE PATENT CLASSIFICATION

C CHEMISTRY; METALLURGY

(NOTES omitted)

CHEMISTRY

C09 DYES; PAINTS; POLISHES; NATURAL RESINS; ADHESIVES; MISCELLANEOUS COMPOSITIONS; MISCELLANEOUS APPLICATIONS OF MATERIALS

C09J ADHESIVES; NON-MECHANICAL ASPECTS OF ADHESIVE PROCESSES IN GENERAL; ADHESIVE PROCESSES NOT PROVIDED FOR ELSEWHERE; USE OF MATERIALS AS ADHESIVES (surgical adhesives [A61L 24/00](#); processes for applying liquids or other fluent materials to surfaces in general [B05D](#); adhesives on the basis of non specified organic macromolecular compounds used as bonding agents in layered products [B32B](#); organic labelling fabrics or comparable materials or articles with deformable surface using adhesives and thermo-activatable adhesives respectively [B65C 5/02](#), [B65C 5/04](#); organic macromolecular compounds [C08](#); production of multi-layer textile fabrics [D06M 17/00](#); preparation of glue or gelatine [C09H](#); adhesive labels, tag tickets or similar identification of indication means [G09F 3/10](#))

NOTES

- In this subclass, the following terms or expressions are used with the meanings indicated:
 - "use of materials as adhesives" means the use of known or new polymers or products;
 - "rubber" includes:
 - natural or conjugated diene rubbers;
 - rubber in general (for a specific rubber, other than a natural rubber or a conjugated diene rubber, see the group provided for adhesives based on such macromolecular compounds);
 - "based on" is defined by means of Note 3, below.
 - In this subclass, adhesives containing specific macromolecular substances are classified only according to the macromolecular substance, non-macromolecular substances not being taken into account.

Example: an adhesive containing polyethene and amino-propyltrimethoxysilane is classified in group [C09J 123/06](#). However, adhesives containing combinations of organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond with prepolymers or polymers other than unsaturated polymers of groups [C09J 159/00](#) - [C09J 187/00](#) are classified according to the unsaturated non-macromolecular component in group [C09J 4/00](#).

Example: an adhesive containing polyethene and styrene monomer is classified in group [C09J 4/06](#).

Aspects relating to the physical nature of the adhesives or to the effects produced, as defined in group [C09J 9/00](#), if clearly and explicitly stated, are also classified in this subclass. Adhesives characterised by other features, e.g. additives, are classified in group [C09J 11/00](#), unless the macromolecular constituent is specified.
 - In this subclass, adhesives comprising two or more macromolecular constituents are classified according to the macromolecular constituent or constituents present in the highest proportion, i.e. the constituent on which the adhesive is based. If the adhesive is based on two or more constituents, present in equal proportions, the adhesive is classified according to each of these constituents.

Examples: An adhesive containing 80 parts of polyethene and 20 parts of polyvinylchloride is classified in group [C09J 123/06](#); An adhesive containing 40 parts of polyethene and 40 parts of polyvinylchloride is classified in groups [C09J 123/06](#) and [C09J 127/06](#).
 - An adhesive composition containing polyethylene and amino-propyltrimethoxysilane is classified in groups [C09J 123/06](#) and [C08K 5/544](#).
 - Documents classified up until 09-2003: Classification is given in the form of C-Sets. The polymer in majority is given a [C09J 101/00](#) - [C09J 201/10](#) symbol, and the minor components are characterised by Indexing Codes taken from the list below. The Indexing Codes are linked. The polymer in majority is always first in the C-set.

List of [C08L](#) codes: [C08L 23/00](#), [C08L 23/26](#), [C08L 25/00](#), [C08L 27/00](#), [C08L 27/04](#), [C08L 27/12](#), [C08L 29/00](#), [C08L 31/00](#), [C08L 33/00](#), [C08L 35/00](#), [C08L 37/00](#), [C08L 51/00](#), [C08L 53/00](#), [C08L 55/02](#), [C08L 61/04](#), [C08L 61/20](#), [C08L 63/00](#), [C08L 67/00](#), [C08L 67/02](#), [C08L 67/025](#), [C08L 67/03](#), [C08L 67/04](#), [C08L 67/06](#), [C08L 67/07](#), [C08L 69/00](#), [C08L 69/005](#), [C08L 71/00](#), [C08L 75/04](#), [C08L 77/00](#), [C08L 77/08](#), [C08L 77/12](#), [C08L 79/08](#), [C08L 79/085](#), [C08L 81/00](#), [C08L 83/00](#), [C08L 85/00](#), [C08L 91/06](#), [C08L 95/00](#) or [C08L 2666/00](#) - [C08L 2666/86](#). An additive is classified in the last appropriate place in the list as selected for each [C09J](#) group. Examples:
- An adhesive composition based on a polyamide and a graft polymer is classified in ([C09J 177/00](#), [C08L 2666/24](#)).

C09J

C09J

(continued)

- b. An adhesive composition based on polyvinylchloride and containing CaCO₃ is classified according to note 4 of [C08K](#), i.e. in [C08K 3/26](#) and [C09J 127/06](#). If this adhesive composition contains also a polyamide, then the classification will be ([C09J 127/06](#), [C08L 77/00](#), [C08K 3/26](#)).
- c. An adhesive composition based on a polysiloxane ([C09J 183/04](#)) and containing a second polysiloxane, a phenol and silica is classified in ([C09J 183/04](#), [C08L 83/04](#), [C08L 2666/34](#), [C08L 2666/54](#)).
6. From April 2012, after the notation [C09J 4/00](#), classification concerning the monomer may be added, in the form of C-sets. The notation is selected from [C08F 210/00](#) - [C08F 246/00](#), [C08G 77/00](#) - [C08G 77/04](#) or [C08G 77/20](#) - [C08G 77/30](#).
Ex. 1: An adhesive based on methylmethacrylate monomer is classified in ([C09J 4/00](#), [C08F 220/00](#)).
Ex. 2: An adhesive based on a dialkoxysilane monomer compound is classified in ([C09J 4/00](#), [C08G 77/04](#)).
7. From 01.09.2003 until April 2012: Classification is given in the form of C-Sets. The polymer in majority is given a [C08L](#) class, and the minor components are characterised by Indexing Codes taken from [C08L](#) or [C08K](#) and they are linked or unlinked. The polymer in majority is always first in the C-set. List of indexing codes in the C-Sets: [C08L 1/00](#), [C08L 81/00](#), [C08L 83/00](#), [C08L 91/06](#), [C08L 95/00](#) or [C08L 2666/02](#) - [C08L 2666/08](#), [C08L 2666/14](#) - [C08L 2666/26](#). Examples:
a. An adhesive blend of 60 parts polyvinylchloride ([C09J 127/06](#)) and 40 parts polyamide is classified in ([C09J 127/06](#), [C08L 2666/20](#)), [C08L 77/00](#).
b. An adhesive blend of 50 parts polyvinylchloride ([C09J 127/06](#)) and 50 parts polyamide ([C09J 177/00](#)) is classified in ([C09J 127/06](#), [C08L 2666/20](#)), ([C09J 177/00](#), [C08L 2666/04](#)), [C08L 77/00](#) and [C08L 27/06](#).
c. An adhesive composition based on polyvinylchloride and containing CaCO₃ is classified according to [N: Note 4 of [C08K](#), i.e. in [C08K 3/26](#), [C09J 127/06](#). If this composition contains also a polyamide, then the classification will be ([C09J 127/06](#), [C08L 2666/20](#)) and [C08K 3/26](#).
d. A composition based on a first polysiloxane ([C09J 183/04](#)) and containing a second polysiloxane, a phenol and silica is classified in ([C09J 183/04](#), [C08L 83/00](#), [C08K 5/13](#), [C08K 3/36](#)) and [C08L 2205/02](#).
8. From April 2012 onwards, after the notation of groups [C09J 101/00](#) - [C09J 201/00](#), notations concerning the other constituents of the adhesive composition may be added, in the form of C-sets. The further constituent is added with an indexing code. The indexing codes are chosen from [C08L 1/00](#) - [C08L 2555/86](#) or [C08K](#) and they may be linked or unlinked: - [C08L 1/00](#) - [C08L 101/16](#) are linked. - [C08L 2201/00](#) - [C08L 2555/86](#) are unlinked. The polymer in majority is always first in the C-set.
Examples:
a. An adhesive composition containing polyethylene and amino-propyltrimethoxysilane is classified in groups [C09J 123/06](#) and [C08K 5/544](#) (unlinked).
b. An adhesive containing 80 parts of polyethylene and 20 parts of polyvinylchloride is classified in group ([C09J 123/06](#), [C08L 27/06](#)).
c. An adhesive containing 40 parts of polyethylene and 40 parts of polyvinylchloride is classified in groups ([C09J 123/06](#), [C08L 27/06](#)) and ([C09J 127/06](#), [C08L 23/06](#)).
d. An adhesive containing 90% of polysiloxane ([C09J 183/04](#)) further containing of polyester ([C08L 67/00](#)) and an alcohol is classified in ([C09J 183/04](#), [C08L 67/00](#), [C08K 5/05](#)).

WARNING

The following IPC group is not used in the CPC system: Subject matter covered by these groups is classified in the following CPC group:

C09J 4/02	covered by	
C09J 4/04	covered by	
C09J 161/08	covered by	
C09J 163/02	covered by	C09J 163/00
C09J 183/05	covered by	
C09J 183/07	covered by	

1/00 Adhesives based on inorganic constituents
1/02 . containing water-soluble alkali silicates
4/00 Adhesives based on organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond{; adhesives, based on monomers of macromolecular compounds of groups [C09J 183/00](#) - [C09J 183/16](#)}
4/06 . {Organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond} in combination with a macromolecular compound other than an unsaturated polymer of groups [C09J 159/00](#) - [C09J 187/00](#)

5/00 Adhesive processes in general; Adhesive processes not provided for elsewhere, e.g. relating to primers (devices for applying glue to surfaces to be joined [B05](#), [B27G 11/00](#))
5/02 . involving pretreatment of the surfaces to be joined
5/04 . involving separate application of adhesive ingredients to the different surfaces to be joined
5/06 . involving heating of the applied adhesive
5/08 . using foamed adhesives
5/10 . Joining materials by welding overlapping edges with an insertion of plastic material

7/00 Adhesives in the form of films or foils

NOTE

In this group, the indexing codes of subclass **M09J** are used

7/02	. on carriers	11/02	. Non-macromolecular additives
7/0203	. . {essentially based on heat-curable or heat-activatable adhesive}	11/04	. . inorganic
7/0207	. . {characterised by pressure-sensitive adhesive}	11/06	. . organic
7/021	. . . {based on macromolecular compounds obtained by reactions involving only carbon-to-carbon unsaturated bonds}	11/08	. Macromolecular additives
7/0214	. . . . {Natural or synthetic rubber}	Adhesives based on polysaccharides or on their derivatives	
7/0217	. . . . {Acrylic polymers}	101/00	Adhesives based on cellulose, modified cellulose, or cellulose derivatives
7/0221	. . . . {Block-copolymers}	101/02	. Cellulose; Modified cellulose
7/0225	. . {characterised by release features}	101/04	. . Oxycellulose; Hydrocellulose
7/0228	. . . {characterised by the release coating composition}	101/06	. . Cellulose hydrate
7/0232	. . . {characterised by the structure of the release liner}	101/08	. Cellulose derivatives
7/0235	. . . {characterised by the substrate of the release liner}	101/10	. . Esters of organic acids (of both organic acids and inorganic acids C09J 101/20)
7/0239	. . {on carriers other than paper or textile fabrics}	101/12	. . . Cellulose acetate
7/0242	. . . {essentially based on heat-curable or heat-activatable adhesive}	101/14	. . . Mixed esters, e.g. cellulose acetate-butyrate
7/0246	. . . {characterised by pressure-sensitive adhesive}	101/16	. . Esters of inorganic acids (of both organic acids and inorganic acids C09J 101/20)
7/025	. . . {characterised by the release coating composition or properties}	101/18	. . . Cellulose nitrate
7/0253	. . . . {characterised by the structure}	101/20	. . Esters of both organic acids and inorganic acids
7/0257	. . . {characterised by the priming intermediate layer composition}	101/22	. . Cellulose xanthate
7/026	. . . {characterised by the carrier}	101/24	. . . Viscose
7/0264	. . . . {Plastic, including metallised plastic}	101/26	. . Cellulose ethers
7/0267	. . . . . {based on macromolecular compounds obtained by reactions involving only carbon-to-carbon unsaturated bonds}	101/28	. . . Alkyl ethers
7/0271	. . . . . {Polyolefin, including rubber}	101/282	. . . . {with halogen-substituted hydrocarbon radicals}
7/0275	. . . . . {Ethylene or propylene polymers}	101/284	. . . . {with hydroxylated hydrocarbon radicals}
7/0278	. . . . . {Vinyl resins, e.g. PVC}	101/286	. . . . {substituted with acid radicals (C09J 101/282 takes precedence)}
7/0282	. . . . . {based on macromolecular compounds obtained otherwise than by reactions involving only carbon-to-carbon unsaturated bonds}	101/288	. . . . {substituted with nitrogen containing radicals}
7/0285	. . . . . {Polyester}	101/30	. . . Aryl ethers; Aralkyl ethers
7/0289	. . . . . {Porous or cellular plastic}	101/32	. . Cellulose ether-esters
7/0292	. . . . {Metal sheet}	103/00	Adhesives based on starch, amylose or amylopectin or on their derivatives or degradation products
7/0296	. . . . {Laminates}	103/02	. Starch; Degradation products thereof, e.g. dextrin
7/04	. . on paper or textile fabric (adhesive bandages, dressings or adsorbent pads, {e.g. plasters} , A61F 13/02)	103/04	. Starch derivatives
7/041	. . . {characterised by the adhesive composition}	103/06	. . Esters
7/042	. . . . {Water-activatable adhesive, e.g. gummed paper}	103/08	. . Ethers
7/043	. . . . {Heat-curable or heat-activatable adhesive}	103/10	. . Oxidised starch
7/045	. . . . {Pressure-sensitive adhesive}	103/12	. Amylose; Amylopectin; Degradation products thereof
7/046	. . . {characterised by the release coating composition}	103/14	. Amylose derivatives; Amylopectin derivatives
7/047	. . . . {characterised by the structure}	103/16	. . Esters
7/048	. . . {characterised by the backing impregnating composition}	103/18	. . Ethers
9/00	Adhesives characterised by their physical nature or the effects produced, e.g. glue sticks (C09J 7/00 takes precedence)	103/20	. . Oxidised amylose; Oxidised amylopectin
9/005	. {Glue sticks}	105/00	Adhesives based on polysaccharides or on their derivatives, not provided for in groups C09J 101/00 or C09J 103/00
9/02	. Electrically-conducting adhesives	105/02	. Dextran; Derivatives thereof
11/00	Features of adhesives not provided for in group C09J 9/00, e.g. additives	105/04	. Alginic acid; Derivatives thereof
		105/06	. Pectin; Derivatives thereof
		105/08	. Chitin; Chondroitin sulfate; Hyaluronic acid; Derivatives thereof
		105/10	. Heparin; Derivatives thereof
		105/12	. Agar-agar; Derivatives thereof
		105/14	. Hemicellulose; Derivatives thereof
		105/16	. Cyclodextrin; Derivatives thereof
		Adhesives based on rubbers or on their derivatives	
		107/00	Adhesives based on natural rubber

107/02	. Latex	123/0869	. . . . . {Acids or derivatives thereof}
109/00	Adhesives based on homopolymers or copolymers of conjugated diene hydrocarbons	123/0876	. . . . . {Neutralised polymers, i.e. ionomers}
109/02	. Copolymers with acrylonitrile	123/0884	. . . . . {Epoxide containing esters}
109/04	. . Latex	123/0892	. . . . . {containing monomers with other atoms than carbon, hydrogen or oxygen atoms}
109/06	. Copolymers with styrene	123/10	. . Homopolymers or copolymers of propene
109/08	. . Latex	123/12	. . . Polypropene
109/10	. Latex (C09J 109/04 , C09J 109/08 take precedence)	123/14	. . . Copolymers of propene (C09J 123/16 takes precedence)
111/00	Adhesives based on homopolymers or copolymers of chloroprene	123/142	. . . . {at least partially crystalline copolymers of propene with other olefins}
111/02	. Latex	123/145	. . . . {Copolymers of propene with monomers having more than one C=C double bond}
113/00	Adhesives based on rubbers containing carboxyl groups	123/147	. . . . {Copolymers of propene with monomers containing other atoms than carbon or hydrogen atoms}
113/02	. Latex	123/16	. . {Elastomeric} ethene-propene or ethene-propene-diene copolymers, {e.g. EPR and EPDM rubbers}
115/00	Adhesives based on rubber derivatives (C09J 111/00 , C09J 113/00 take precedence)	NOTE This group is used for polymers comprising both ethylene and propylene	
115/005	. {Hydrogenated nitrile rubber}	123/18	. . Homopolymers or copolymers of hydrocarbons having four or more carbon atoms
115/02	. Rubber derivatives containing halogen	123/20	. . . having four to nine carbon atoms
117/00	Adhesives based on reclaimed rubber	123/22	. . . . Copolymers of isobutene; Butyl rubber {Homo- or copolymers of other iso-olefines}
119/00	Adhesives based on rubbers, not provided for in groups C09J 107/00 - C09J 117/00	123/24	. . . having ten or more carbon atoms
119/003	. {Precrosslinked rubber; Scrap rubber; Used vulcanised rubber}	123/26	. modified by chemical after-treatment
119/006	. {Rubber characterised by functional groups, e.g. telechelic diene polymers}	123/28	. . by reaction with halogens or compounds containing halogen (C09J 123/32 takes precedence)
119/02	. Latex	123/283	. . . {Halogenated homo- or copolymers of iso-olefines}
121/00	Adhesives based on unspecified rubbers	123/286	. . . {Chlorinated polyethylene}
121/02	. Latex	123/30	. . by oxidation
Adhesives based on organic macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds		123/32	. . by reaction with compounds containing phosphorus or sulfur
123/00	Adhesives based on homopolymers or copolymers of unsaturated aliphatic hydrocarbons having only one carbon-to-carbon double bond; Adhesives based on derivatives of such polymers	123/34	. . . by chlorosulfonation
123/02	. not modified by chemical after-treatment	123/36	. . by reaction with compounds containing nitrogen, e.g. by nitration
123/025	. . {Copolymer of an unspecified olefine with a monomer other than an olefine}	125/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an aromatic carbocyclic ring; Adhesives based on derivatives of such polymers
123/04	. . Homopolymers or copolymers of ethene	125/02	. Homopolymers or copolymers of hydrocarbons
123/06	. . . Polyethylene	125/04	. . Homopolymers or copolymers of styrene
123/08	. . . Copolymers of ethene (C09J 123/16 takes precedence)	125/06	. . . Polystyrene
123/0807	. . . . {Copolymers of ethene with unsaturated hydrocarbons only containing more than three carbon atoms}	125/08	. . . Copolymers of styrene (C09J 129/08 , C09J 135/06 , C09J 155/02 take precedence)
123/0815	. . . . . {Copolymers of ethene with aliphatic 1-olefins}	125/10	. . . . with conjugated dienes
123/0823	. . . . . {Copolymers of ethene with aliphatic cyclic olefins}	125/12	. . . . with unsaturated nitriles
123/083	. . . . . {Copolymers of ethene with aliphatic polyenes, i.e. containing more than one unsaturated bond}	125/14	. . . . with unsaturated esters
123/0838	. . . . . {Copolymers of ethene with aromatic monomers}	125/16	. . Homopolymers or copolymers of alkyl-substituted styrenes
123/0846	. . . . {Copolymers of ethene with unsaturated hydrocarbons containing other atoms than carbon or hydrogen atoms}	125/18	. Homopolymers or copolymers of aromatic monomers containing elements other than carbon and hydrogen
123/0853	. . . . . {Vinylacetate}		
123/0861	. . . . . {Saponified vinylacetate}		

127/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a halogen; Adhesives based on derivatives of such polymers	133/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by only one carboxyl radical, or of salts, anhydrides, esters, amides, imides, or nitriles thereof; Adhesives based on derivatives of such polymers
127/02	. not modified by chemical after-treatment		
127/04	. . containing chlorine atoms		
127/06	. . . Homopolymers or copolymers of vinyl chloride	133/02	. Homopolymers or copolymers of acids; Metal or ammonium salts thereof
127/08	. . . Homopolymers or copolymers of vinylidene chloride	133/04	. Homopolymers or copolymers of esters { (C09J 143/04 takes precedence) }
127/10	. . containing bromine or iodine atoms	133/06	. . of esters containing only carbon, hydrogen and oxygen, the oxygen atom being present only as part of the carboxyl radical
127/12	. . containing fluorine atoms	133/062	. . . { Copolymers with monomers not covered by C09J 133/06 }
127/14	. . . Homopolymers or copolymers of vinyl fluoride	133/064	. . . . {containing anhydride, COOH or COOM groups, with M being metal or onium-cation }
127/16	. . . Homopolymers or copolymers of vinylidene fluoride	133/066	. . . . {containing -OH groups }
127/18	. . . Homopolymers or copolymers of tetrafluoroethene	133/068	. . . . {containing glycidyl groups }
127/20	. . . Homopolymers or copolymers of hexafluoropropene	133/08	. . . Homopolymers or copolymers of acrylic acid esters
127/22	. modified by chemical after-treatment	133/10	. . . Homopolymers or copolymers of methacrylic acid esters
127/24	. . halogenated	133/12	. . . . Homopolymers or copolymers of methyl methacrylate
129/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an alcohol, ether, aldehydo, ketonic, acetal, or ketal radical; Adhesives based on hydrolysed polymers of esters of unsaturated alcohols with saturated carboxylic acids; Adhesives based on derivatives of such polymers	133/14	. . of esters containing halogen, nitrogen, sulfur or oxygen atoms in addition to the carboxy oxygen
129/02	. Homopolymers or copolymers of unsaturated alcohols (C09J 129/14 takes precedence)	133/16	. . . Homopolymers or copolymers of esters containing halogen atoms
129/04	. . Polyvinyl alcohol; Partially hydrolysed homopolymers or copolymers of esters of unsaturated alcohols with saturated carboxylic acids	133/18	. Homopolymers or copolymers of nitriles
129/06	. . Copolymers of allyl alcohol	133/20	. . Homopolymers or copolymers of acrylonitrile (C09J 155/02 takes precedence)
129/08	. . . with vinyl aromatic monomers	133/22	. . Homopolymers or copolymers of nitriles containing four or more carbon atoms
129/10	. Homopolymers or copolymers of unsaturated ethers (C09J 135/08 takes precedence)	133/24	. Homopolymers or copolymers of amides or imides
129/12	. Homopolymers or copolymers of unsaturated ketones	133/26	. . Homopolymers or copolymers of acrylamide or methacrylamide
129/14	. Homopolymers or copolymers of acetals or ketals obtained by polymerisation of unsaturated acetals or ketals or by after-treatment of polymers of unsaturated alcohols	135/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a carboxyl radical, and containing at least another carboxyl radical in the molecule, or of salts, anhydrides, esters, amides, imides or nitriles thereof; Adhesives based on derivatives of such polymers
131/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by an acyloxy radical of a saturated carboxylic acid, of carbonic acid, or of a haloformic acid (based on hydrolysed polymers C09J 129/00); Adhesives based on derivatives of such polymers	135/02	. Homopolymers or copolymers of esters (C09J 135/06 , C09J 135/08 take precedence)
131/02	. Homopolymers or copolymers of esters of monocarboxylic acids	135/04	. Homopolymers or copolymers of nitriles (C09J 135/06 , C09J 135/08 take precedence)
131/04	. . Homopolymers or copolymers of vinyl acetate	135/06	. Copolymers with vinyl aromatic monomers
131/06	. Homopolymers or copolymers of esters of polycarboxylic acids	135/08	. Copolymers with vinyl ethers
131/08	. . of phthalic acid		

137/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a heterocyclic ring containing oxygen (based on polymers of cyclic esters of polyfunctional acids C09J 131/00; based on polymers of cyclic anhydrides of unsaturated acids C09J 135/00); Adhesives based on derivatives of such polymers	151/00	Adhesives based on graft polymers in which the grafted component is obtained by reactions only involving carbon-to-carbon unsaturated bonds (based on ABS polymers C09J 155/02); Adhesives based on derivatives of such polymers
139/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a single or double bond to nitrogen or by a heterocyclic ring containing nitrogen; Adhesives based on derivatives of such polymers	151/003	• {grafted on to macromolecular compounds obtained by reactions only involving unsaturated carbon-to-carbon bonds (C09J 151/04 , C09J 151/06 take precedence)}
139/02	• Homopolymers or copolymers of vinylamine	151/006	• {grafted on to block copolymers containing at least one sequence of polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds}
139/04	• Homopolymers or copolymers of monomers containing heterocyclic rings having nitrogen as ring member	151/02	• grafted on to polysaccharides
139/06	• • Homopolymers or copolymers of N-vinyl-pyrrolidones	151/04	• grafted on to rubbers
139/08	• • Homopolymers or copolymers of vinyl-pyridine	151/06	• grafted on to homopolymers or copolymers of aliphatic hydrocarbons containing only one carbon-to-carbon double bond
141/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and at least one being terminated by a bond to sulfur or by a heterocyclic ring containing sulfur; Adhesives based on derivatives of such polymers	151/08	• grafted on to macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
143/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, each having only one carbon-to-carbon double bond, and containing boron, silicon, phosphorus, selenium, tellurium, or a metal; Adhesives based on derivatives of such polymers	151/085	• • {on to polysiloxanes}
143/02	• Homopolymers or copolymers of monomers containing phosphorus	151/10	• grafted on to inorganic materials
143/04	• Homopolymers or copolymers of monomers containing silicon	153/00	Adhesives based on block copolymers containing at least one sequence of a polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds; Adhesives based on derivatives of such polymers
145/00	Adhesives based on homopolymers or copolymers of compounds having no unsaturated aliphatic radicals in a side chain, and having one or more carbon-to-carbon double bonds in a carbocyclic or in a heterocyclic system; Adhesives based on derivatives of such polymers (based on polymers of cyclic esters of polyfunctional acids C09J 131/00; based on polymers of cyclic anhydrides or imides C09J 135/00)	153/005	• {Modified block copolymers}
145/02	• Coumarone-indene polymers	153/02	• Vinyl aromatic monomers and conjugated dienes
147/00	Adhesives based on homopolymers or copolymers of compounds having one or more unsaturated aliphatic radicals, at least one having two or more carbon-to-carbon double bonds; Adhesives based on derivatives of such polymers (C09J 145/00 takes precedence; based on conjugated diene rubbers C09J 109/00 - C09J 121/00)	153/025	• • {modified}
149/00	Adhesives based on homopolymers or copolymers of compounds having one or more carbon-to-carbon triple bonds; Adhesives based on derivatives of such polymers	155/00	Adhesives based on homopolymers or copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in groups C09J 123/00 - C09J 153/00
		155/005	• {Homopolymers or copolymers obtained by polymerisation of macromolecular compounds terminated by a carbon-to-carbon double bond}
		155/02	• ABS [Acrylonitrile-Butadiene-Styrene] polymers
		155/04	• Polyadducts obtained by the diene synthesis
		157/00	Adhesives based on unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds
		157/02	• Copolymers of mineral oil hydrocarbons
		157/04	• Copolymers in which only the monomer in minority is defined
		157/06	• Homopolymers or copolymers containing elements other than carbon and hydrogen
		157/08	• • containing halogen atoms
		157/10	• • containing oxygen atoms
		157/12	• • containing nitrogen atoms
		<u>Adhesives based on organic macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds</u>	
		159/00	Adhesives based on polyacetals; Adhesives based on derivatives of polyacetals
		159/02	• Polyacetals containing polyoxymethylene sequences only
		159/04	• Copolyoxymethylenes

161/00	Adhesives based on condensation polymers of aldehydes or ketones (with polyalcohols C09J 159/00; with polynitriles C09J 177/00); Adhesives based on derivatives of such polymers	167/04	• Polyesters derived from hydroxycarboxylic acids, e.g. lactones (C09J 167/06 takes precedence)
161/02	• Condensation polymers of aldehydes or ketones only	167/06	• Unsaturated polyesters having carbon-to-carbon unsaturation
161/04	• Condensation polymers of aldehydes or ketones with phenols only	167/07	• • having terminal carbon-to-carbon unsaturated bonds
161/06	• • of aldehydes with phenols	167/08	• Polyesters modified with higher fatty oils or their acids, or with natural resins or resin acids
161/12	• • • with polyhydric phenols	169/00	Adhesives based on polycarbonates; Adhesives based on derivatives of polycarbonates
161/14	• • • Modified phenol-aldehyde condensates	169/005	• {Polyester-carbonates}
161/16	• • of ketones with phenols	171/00	Adhesives based on polyethers obtained by reactions forming an ether link in the main chain (based on polyacetals C09J 159/00; based on epoxy resins C09J 163/00; based on polythioether-ethers C09J 181/02; based on polyethersulfones C09J 181/06); Adhesives based on derivatives of such polymers
161/18	• Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives only	171/02	• Polyalkylene oxides
161/20	• Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (with amino phenols C09J 161/04)	171/03	• • Polyepihalohydrins
161/22	• • of aldehydes with acyclic or carbocyclic compounds	171/08	• Polyethers derived from hydroxy compounds or from their metallic derivatives (C09J 171/02 takes precedence) {not used}
161/24	• • • with urea or thiourea	171/10	• • from phenols {not used}
161/26	• • of aldehydes with heterocyclic compounds	171/12	• • • Polyphenylene oxides
161/28	• • • with melamine	171/14	• • Furfuryl alcohol polymers
161/30	• • of aldehydes with heterocyclic and acyclic or carbocyclic compounds	173/00	Adhesives based on macromolecular compounds obtained by reactions forming a linkage containing oxygen or oxygen and carbon in the main chain, not provided for in groups C09J 159/00 - C09J 171/00; Adhesives based on derivatives of such polymers
161/32	• • Modified amine-aldehyde condensates	173/02	• Polyanhydrides
161/34	• Condensation polymers of aldehydes or ketones with monomers covered by at least two of the groups C09J 161/04, C09J 161/18 and C09J 161/20	175/00	Adhesives based on polyureas or polyurethanes; Adhesives based on derivatives of such polymers
163/00	Adhesives based on epoxy resins; Adhesives based on derivatives of epoxy resins	175/02	• Polyureas
163/04	• Epoxynovolacs	175/04	• Polyurethanes
163/06	• Triglycidylisocyanurates	175/06	• • from polyesters
163/08	• Epoxidised polymerised polyenes	175/08	• • from polyethers
163/10	• Epoxy resins modified by unsaturated compounds	175/10	• • from polyacetals
	NOTE	175/12	• • from compounds containing nitrogen and active hydrogen, the nitrogen atom not being part of an isocyanate group
	In groups C09J 165/00 - C09J 185/00, in the absence of an indication to the contrary, adhesives based on macromolecular compounds obtained by reactions forming two different linkages in the main chain are classified according to the linkage present in excess.	175/14	• • Polyurethanes having carbon-to-carbon unsaturated bonds
165/00	Adhesives based on macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain (C09J 107/00 - C09J 157/00, C09J 161/00 take precedence); Adhesives based on derivatives of such polymers	175/16	• • • having terminal carbon-to-carbon unsaturated bonds
165/02	• Polyphenylenes	177/00	Adhesives based on polyamides obtained by reactions forming a carboxylic amide link in the main chain (based on polyhydrazides C09J 179/06; based on polyamide-imides C09J 179/08); Adhesives based on derivatives of such polymers
165/04	• Polyxylylenes	177/02	• Polyamides derived from omega-amino carboxylic acids or from lactams thereof (C09J 177/10 takes precedence)
167/00	Adhesives based on polyesters obtained by reactions forming a carboxylic ester link in the main chain (based on polyester-amides C09J 177/12; based on polyester-imides C09J 179/08); Adhesives based on derivatives of such polymers	177/04	• Polyamides derived from alpha-amino carboxylic acids (C09J 177/10 takes precedence)
167/02	• Polyesters derived from dicarboxylic acids and dihydroxy compounds (C09J 167/06 takes precedence)	177/06	• Polyamides derived from polyamines and polycarboxylic acids (C09J 177/10 takes precedence)
167/025	• • {containing polyether sequences}		
167/03	• • the dicarboxylic acids and dihydroxy compounds having the carboxyl - and the hydroxy groups directly linked to aromatic rings		

- 177/08 . . from polyamines and polymerised unsaturated fatty acids
- 177/10 . Polyamides derived from aromatically bound amino and carboxyl groups of amino carboxylic acids or of polyamines and polycarboxylic acids
- 177/12 . Polyester-amides
- 179/00** **Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing nitrogen, with or without oxygen, or carbon only, not provided for in groups [C09J 161/00](#) - [C09J 177/00](#)**
- 179/02 . Polyamines
- 179/04 . Polycondensates having nitrogen-containing heterocyclic rings in the main chain; Polyhydrazides; Polyamide acids or similar polyimide precursors
- 179/06 . . Polyhydrazides; Polytriazoles; Polyamino-triazoles; Polyoxadiazoles
- 179/08 . . Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors
- 179/085 . . . {[Unsaturated polyimide precursors](#)}
- 181/00** **Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing sulfur, with or without nitrogen, oxygen, or carbon only; Adhesives based on polysulfones; Adhesives based on derivatives of such polymers**
- 181/02 . Polythioethers; Polythioether-ethers
- 181/04 . Polysulfides
- 181/06 . Polysulfones; Polyethersulfones
- 181/08 . Polysulfonates
- 181/10 . Polysulfonamides; Polysulfonimides
- 183/00** **Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing silicon, with or without sulfur, nitrogen, oxygen, or carbon only; Adhesives based on derivatives of such polymers**
- NOTE**
In this main group, from 01.09.2010 onwards, new documents are classified according to the following system. The adhesive is identified with the previous existing ECLA(+B) notation, e.g. [C09J 183/04](#) +**B4S** (for an adhesive containing two or more siloxanes), while the information as to which different polymers are present in the adhesive is identified with additional indexing codes, e.g. [C08G 77/12](#) and [C08G 77/20](#)
- 183/02 . Polysilicates
- 183/04 . Polysiloxanes
- 183/06 . . containing silicon bound to oxygen-containing groups ([C09J 183/12](#) takes precedence)
- 183/08 . . containing silicon bound to organic groups containing atoms other than carbon, hydrogen, and oxygen
- 183/10 . Block or graft copolymers containing polysiloxane sequences ([obtained by polymerising a compound having a carbon-to-carbon double bond on to a polysiloxane \[C09J 151/08\]\(#\), \[C09J 153/00\]\(#\)](#))
- 183/12 . . containing polyether sequences

- 183/14 . in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms ([C09J 183/10](#) takes precedence)
- 183/16 . in which all the silicon atoms are connected by linkages other than oxygen atoms
- 185/00** **Adhesives based on macromolecular compounds obtained by reactions forming in the main chain of the macromolecule a linkage containing atoms other than silicon, sulfur, nitrogen, oxygen, and carbon; Adhesives based on derivatives of such polymers**
- 185/02 . containing phosphorus
- 185/04 . containing boron
- 187/00** **Adhesives based on unspecified macromolecular compounds, obtained otherwise than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds**
- 187/005 . {[Block or graft polymers not provided for in groups \[C09J 101/00\]\(#\) - \[C09J 185/04\]\(#\)](#)}

Adhesives based on natural macromolecular compounds or on derivatives thereof (based on polysaccharides [C09J 101/00](#) - [C09J 105/00](#); based on natural rubber [C09J 107/00](#))

- 189/00** **Adhesives based on proteins; Adhesives based on derivatives thereof (foodstuff preparations [A23J 3/00](#))**
- 189/005 . {[Casein](#)}
- 189/02 . Casein-aldehyde condensates
- 189/04 . Products derived from waste materials, e.g. horn, hoof or hair
- 189/06 . . derived from leather or skin
- 191/00** **Adhesives based on oils, fats or waxes; Adhesives based on derivatives thereof (polishing compositions, ski waxes [C09G](#); soaps, detergent compositions [C11D](#))**
- 191/005 . {[Drying oils](#)}
- 191/02 . Vulcanised oils, e.g. factice
- 191/04 . Linosyn
- 191/06 . Waxes
- 191/08 . . Mineral waxes
- 193/00** **Adhesives based on natural resins; Adhesives based on derivatives thereof (polishing compositions [C09G](#))**
- 193/02 . Shellac
- 193/04 . Rosin
- 195/00** **Adhesives based on bituminous materials, e.g. asphalt, tar, pitch**
- 195/005 . {[Aqueous compositions, e.g. emulsions](#)}
- 197/00** **Adhesives based on lignin-containing materials**
- 197/002 . {[Peat, lignite, coal \(briquettes \[C10L 5/00\]\(#\); working-up peat; ceramic products based on carbon or carbides\)](#)}
- 197/005 . {[Lignin](#)}
- 197/007 . {[Cork](#)}
- 197/02 . Lignocellulosic material, e.g. wood, straw or bagasse
- 199/00** **Adhesives based on natural macromolecular compounds or on derivatives thereof, not provided for in groups [C09J 189/00](#) - [C09J 197/00](#)**

201/00	Adhesives based on unspecified macromolecular compounds
201/005	. {Dendritic macromolecules}
201/02	. characterised by the presence of specified groups {, e.g. terminal or pendant functional groups}
201/025	. . {containing nitrogen atoms}
201/04	. . containing halogen atoms
201/06	. . containing oxygen atoms { (C09J 201/025 takes precedence)}
201/08	. . . Carboxyl groups
201/10	. . containing hydrolysable silane groups
2201/12	. . {by the arrangement of layers}
2201/122	. . . {the adhesive layer being present only on one side of the carrier, e.g. single-sided adhesive tape}
2201/128	. . . {the adhesive layer being present on both sides of the carrier, e.g. double-sided adhesive tape}
2201/134	. . . . {the opposite adhesive layers being different}
2201/16	. . {by the structure of the carrier layer}
2201/162	. . . {the carrier layer being a laminate constituted by plastic layers only}
2201/20	. . {by perforations through the adhesive tape}
2201/24	. . {the adhesive being in the form of fibres}
2201/28	. . {the adhesive coating being discontinuous}
2201/32	. . {the adhesive layer comprising non-adhesive protrusions}
2201/36	. . {the adhesive layer being constituted by at least two or more adjacent or superposed adhesive layers, e.g. multilayer adhesive}
2201/40	. . {the adhesive layer being formed by alternating adhesive areas being chemically different}
2201/60	. . {by other properties}
2201/602	. . . {being conductive}
2201/606	. . . {the adhesive being pressure-sensitive, i.e. tacky at temperatures inferior to 30°C}
2201/61	. . . {the adhesive being a hot-melt, i.e. not tacky at temperatures inferior to 30°C}
2201/614	. . . {the adhesive being water-activatable}
2201/618	. . . {the adhesive losing adhesive strength when being stretched, e.g. stretch adhesive}
2201/622	. . . {the parameters being the characterising features}
2201/626	. . . {the adhesive effect being based on a so-called Gecko structure}

2203/00	Applications
2203/10	. Use of the adhesive composition in processes
2203/102	. . in the form of dowels, anchors or cartridges
2203/30	. Use of the adhesive tape
2203/302	. . for bundling cables
2203/306	. . for protecting painted surfaces, e.g. of cars
2203/31	. . as a masking tape for painting
2203/314	. . for carpets
2203/318	. . for the production of liquid crystal displays
2203/322	. . for the production of solar panels
2203/326	. . for bonding electronic components such as wafers, chips or semiconductors
2203/33	. . for batteries or fuel cells
2203/334	. . as a label
2203/338	. . as tamper-evident tape or label

2203/342 . . for flying splice applications

2205/00 Other features

- 2205/10 . of adhesive tapes; Production process thereof
- 2205/102 . . additives as essential feature of the adhesive layer, the additive itself being indicated with the corresponding code of [C08K](#)
- 2205/106 . . additives as essential feature of the substrate, the additive itself being indicated by the corresponding code of [C08K](#)
- 2205/11 . . Presence of microspheres
- 2205/114 . . Presence of a copolymer

NOTE

This group is to be used in combination with combined indexing codes of [C09J 2401/00-C09J 2499/00](#) in case a copolymer is present but not a blend

- 2205/30 . of adhesive processes in general
- 2205/302 . . Process for debonding adherents
- 2205/306 . . Process of pretreatment for improving adhesion of rubber on metallic surfaces
- 2205/31 . . Use of irradiation

2400/00 Presence of inorganic and organic materials

- 2400/10 . Presence of inorganic materials
- 2400/12 . . Ceramic
- 2400/123 . . . in the substrate
- 2400/126 . . . in the pretreated surface to be joined
- 2400/14 . . Glass
- 2400/143 . . . in the substrate
- 2400/146 . . . in the pretreated surface to be joined
- 2400/16 . . Metal
- 2400/163 . . . in the substrate
- 2400/166 . . . in the pretreated surface to be joined
- 2400/20 . Presence of organic materials
- 2400/22 . . Presence of unspecified polymer
- 2400/221 . . . in the barrier layer
- 2400/223 . . . in the primer coating
- 2400/225 . . . in the release layer
- 2400/226 . . . in the substrate
- 2400/228 . . . in the pretreated surface to be joined
- 2400/24 . . Presence of a foam
- 2400/243 . . . in the substrate
- 2400/246 . . . in the pretreated surface to be joined
- 2400/26 . . Presence of textile or fabric
- 2400/263 . . . in the substrate
- 2400/266 . . . in the pretreated surface to be joined
- 2400/28 . . Presence of paper
- 2400/283 . . . in the substrate
- 2400/286 . . . in the pretreated surface to be joined
- 2400/30 . . Presence of wood
- 2400/303 . . . in the substrate
- 2400/306 . . . in the pretreated surface to be joined

2401/00 Presence of cellulose

- 2401/001 . in the barrier layer
- 2401/003 . in the primer coating
- 2401/005 . in the release layer
- 2401/006 . in the substrate
- 2401/008 . in the pretreated surface to be joined

2403/00 Presence of starch

2403/001	• in the barrier layer	2423/006	• in the substrate
2403/003	• in the primer coating	2423/008	• in the pretreated surface to be joined
2403/005	• in the release layer	2423/04	• Presence of homo or copolymers of ethene
2403/006	• in the substrate	2423/041	• • in the barrier layer
2403/008	• in the pretreated surface to be joined	2423/043	• • in the primer coating
2405/00	Presence of polysaccharides	2423/045	• • in the release layer
2405/001	• in the barrier layer	2423/046	• • in the substrate
2405/003	• in the primer coating	2423/048	• • in the pretreated surface to be joined
2405/005	• in the release layer	2423/10	• Presence of homo or copolymers of propene
2405/006	• in the substrate	2423/101	• • in the barrier layer
2405/008	• in the pretreated surface to be joined	2423/103	• • in the primer coating
2407/00	Presence of natural rubber	2423/105	• • in the release layer
2407/001	• in the barrier layer	2423/106	• • in the substrate
2407/003	• in the primer coating	2423/108	• • in the pretreated surface to be joined
2407/005	• in the release layer	2423/16	• Presence of ethen-propene or ethene-propene-diene copolymers
2407/006	• in the substrate	2423/161	• • in the barrier layer
2407/008	• in the pretreated surface to be joined	2423/163	• • in the primer coating
2409/00	Presence of diene rubber	2423/165	• • in the release layer
2409/001	• in the barrier layer	2423/166	• • in the substrate
2409/003	• in the primer coating	2423/168	• • in the pretreated surface to be joined
2409/005	• in the release layer	2425/00	Presence of styrenic polymer
2409/006	• in the substrate	2425/001	• in the barrier layer
2409/008	• in the pretreated surface to be joined	2425/003	• in the primer coating
2411/00	Presence of chloroprene	2425/005	• in the release layer
2411/001	• in the barrier layer	2425/006	• in the substrate
2411/003	• in the primer coating	2425/008	• in the pretreated surface to be joined
2411/005	• in the release layer	2427/00	Presence of halogenated polymer
2411/006	• in the substrate	2427/001	• in the barrier layer
2411/008	• in the pretreated surface to be joined	2427/003	• in the primer coating
2413/00	Presence of rubbers containing carboxyl groups	2427/005	• in the release layer
2413/001	• in the barrier layer	2427/006	• in the substrate
2413/003	• in the primer coating	2427/008	• in the pretreated surface to be joined
2413/005	• in the release layer	2429/00	Presence of polyvinyl alcohol
2413/006	• in the substrate	2429/001	• in the barrier layer
2413/008	• in the pretreated surface to be joined	2429/003	• in the primer coating
2415/00	Presence of rubber derivatives	2429/005	• in the release layer
2415/001	• in the barrier layer	2429/006	• in the substrate
2415/003	• in the primer coating	2429/008	• in the pretreated surface to be joined
2415/005	• in the release layer	2431/00	Presence of polyvinyl acetate
2415/006	• in the substrate	2431/001	• in the barrier layer
2415/008	• in the pretreated surface to be joined	2431/003	• in the primer coating
2417/00	Presence of reclaimed rubber	2431/005	• in the release layer
2417/001	• in the barrier layer	2431/006	• in the substrate
2417/003	• in the primer coating	2431/008	• in the pretreated surface to be joined
2417/005	• in the release layer	2433/00	Presence of acrylic polymer
2417/006	• in the substrate	2433/001	• in the barrier layer
2417/008	• in the pretreated surface to be joined	2433/003	• in the primer coating
2421/00	Presence of unspecified rubber	2433/005	• in the release layer
2421/001	• in the barrier layer	2433/006	• in the substrate
2421/003	• in the primer coating	2433/008	• in the pretreated surface to be joined
2421/005	• in the release layer	2451/00	Presence of graft polymer
2421/006	• in the substrate	2451/001	• in the barrier layer
2421/008	• in the pretreated surface to be joined	2451/003	• in the primer coating
2423/00	Presence of polyolefin	2451/005	• in the release layer
2423/001	• in the barrier layer	2451/006	• in the substrate
2423/003	• in the primer coating	2451/008	• in the pretreated surface to be joined
2423/005	• in the release layer	2453/00	Presence of block copolymer

2453/001	• in the barrier layer	2475/006	• in the substrate
2453/003	• in the primer coating	2475/008	• in the pretreated surface to be joined
2453/005	• in the release layer		
2453/006	• in the substrate	2477/00	Presence of polyamide
2453/008	• in the pretreated surface to be joined	2477/001	• in the barrier layer
		2477/003	• in the primer coating
2455/00	Presence of ABS	2477/005	• in the release layer
2455/001	• in the barrier layer	2477/006	• in the substrate
2455/003	• in the primer coating	2477/008	• in the pretreated surface to be joined
2455/005	• in the release layer		
2455/006	• in the substrate	2479/00	Presence of polyamine or polyimide
2455/008	• in the pretreated surface to be joined	2479/02	• polyamine
		2479/021	• • in the barrier layer
2459/00	Presence of polyacetal	2479/023	• • in the primer coating
2459/001	• in the barrier layer	2479/025	• • in the release layer
2459/003	• in the primer coating	2479/026	• • in the substrate
2459/005	• in the release layer	2479/028	• • in the pretreated surface to be joined
2459/006	• in the substrate	2479/08	• polyimide
2459/008	• in the pretreated surface to be joined	2479/081	• • in the barrier layer
		2479/083	• • in the primer coating
2461/00	Presence of phenolic resin	2479/085	• • in the release layer
2461/001	• in the barrier layer	2479/086	• • in the substrate
2461/003	• in the primer coating	2479/088	• • in the pretreated surface to be joined
2461/005	• in the release layer		
2461/006	• in the substrate	2481/00	Presence of sulfur containing polymers
2461/008	• in the pretreated surface to be joined	2481/001	• in the barrier layer
		2481/003	• in the primer coating
2463/00	Presence of epoxy resin	2481/005	• in the release layer
2463/001	• in the barrier layer	2481/006	• in the substrate
2463/003	• in the primer coating	2481/008	• in the pretreated surface to be joined
2463/005	• in the release layer		
2463/006	• in the substrate	2483/00	Presence of polysiloxane
2463/008	• in the pretreated surface to be joined	2483/001	• in the barrier layer
		2483/003	• in the primer coating
2465/00	Presence of polyphenylene	2483/005	• in the release layer
2465/001	• in the barrier layer	2483/006	• in the substrate
2465/003	• in the primer coating	2483/008	• in the pretreated surface to be joined
2465/005	• in the release layer		
2465/006	• in the substrate	2489/00	Presence of protein
2465/008	• in the pretreated surface to be joined	2489/001	• in the barrier layer
		2489/003	• in the primer coating
2467/00	Presence of polyester	2489/005	• in the release layer
2467/001	• in the barrier layer	2489/006	• in the substrate
2467/003	• in the primer coating	2489/008	• in the pretreated surface to be joined
2467/005	• in the release layer		
2467/006	• in the substrate	2491/00	Presence of oils, fats or waxes
2467/008	• in the pretreated surface to be joined	2491/001	• in the barrier layer
		2491/003	• in the primer coating
2469/00	Presence of polycarbonate	2491/005	• in the release coating
2469/001	• in the barrier layer	2491/006	• in the substrate
2469/003	• in the primer coating	2491/008	• in the pretreated surface to be joined
2469/005	• in the release layer		
2469/006	• in the substrate	2493/00	Presence of natural resin
2469/008	• in the pretreated surface to be joined	2493/001	• in the barrier layer
		2493/003	• in the primer coating
2471/00	Presence of polyether	2493/005	• in the release layer
2471/001	• in the barrier layer	2493/006	• in the substrate
2471/003	• in the primer coating	2493/008	• in the pretreated surface to be joined
2471/005	• in the release layer		
2471/006	• in the substrate	2495/00	Presence of bitume
2471/008	• in the pretreated surface to be joined	2495/001	• in the barrier layer
		2495/003	• in the primer coating
2475/00	Presence of polyurethane	2495/005	• in the release layer
2475/001	• in the barrier layer	2495/006	• in the substrate
2475/003	• in the primer coating	2495/008	• in the pretreated surface to be joined
2475/005	• in the release layer		

C09J

2497/00 Presence of lignin

- 2497/001 . in the barrier layer
- 2497/003 . in the primer coating
- 2497/005 . in the release layer
- 2497/006 . in the substrate
- 2497/008 . in the pretreated surface to be joined

2499/00 Presence of natural macromolecular compounds or on derivatives thereof, not provided for in groups [C09J 2489/00](#) - [C09J 2497/00](#)

- 2499/001 . in the barrier layer
- 2499/003 . in the primer coating
- 2499/005 . in the release layer
- 2499/006 . in the substrate
- 2499/008 . in the pretreated surface to be joined