ECLA EUROPEAN CLASSIFICATION

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) [C1105]

[N: **WARNING** [C1204]
The following IPC group is not used in the internal ECLA classification system: Subject matter covered by these groups is classified in the following ECLA group:
C09J163/02 covered by C09J163/00
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Notes

1. 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:
     a) natural or conjugated diene rubbers;
     b) 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.

2. 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 C09J123/06.

   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 C09J159/00 to C09J187/00 are classified according to the unsaturated non-macromolecular component in group C09J4/00.

   Example: an adhesive containing polyethene and styrene monomer is classified in group C09J4/06.

   Aspects relating to the physical nature of the adhesives or to the effects produced, as defined in group C09J9/00, if clearly and explicitely stated, are also classified in this

subclass. Adhesives characterised by other features, e.g. additives, are classified in group C09J11/00, unless the macromolecular constituent is specified.

3. 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 C09J123/06;
An adhesive containing 40 parts of polyethene and 40 parts of polyvinylchloride is
classified in groups C09J123/06 and C09J127/06.

[N: **Notes**
[C1204]

1. An adhesive composition containing polyethylene and amino-propyltrimethoxysilane is classified in groups C09J123/06 and M08K5/544

2. Documents classified up until 09-2003: Classification is given in the form of C-Sets. The polymer in majority is given a C09J101/00- C09J201/10 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 M08L codes: M08L23/00, M08L23/26, M08L25/00, M08L27/00, M08L27/04, M08L27/12, M08L29/00, M08L31/00, M08L33/00, M08L35/00, M08L37/00, M08L51/00, M08L53/00, M08L55/02, M08L61/04, M08L61/20, M08L63/00, M08L67/00, M08L67/02, M08L67/02B, M08L67/03, M08L67/04, M08L67/06, M08L67/07, M08L69/00, M08L69/00B, M08L71/00, M08L75/04, M08L77/00, M08L77/08, M08L77/12, M08L79/08, M08L79/08B, M08L81/00, M08L83/00, M08L85/00, M08L91/06, M08L95/00 or M08L666/00- M08L666/86. An additive is classified in the last appropriate place in the list as selected for each C09J group.
Examples:

a. An adhesive composition based on a polyamide and a graft polymer is classified in (C09J177/00, M08L666/24).
b. An adhesive composition based on polyvinylchloride and containing CaCO3 is classified according to note 4 of C08K, i.e. in C08K3/26 and C09J127/06. If this adhesive composition contains also a polyamide, then the classification will be (C09J127/06, M08L77/00, M08K3/26).
c. An adhesive composition based on a polysiloxane (C09J183/04) and containing a second polysiloxane, a phenol and silica is classified in (C09J183/04, M08L83/04, M08L666/34, M08L666/54
3. From April 2012, after the notation C09J4/00, classification concerning the monomer may be added, in the form of C-sets. The notation is selected from C08F210/00 to C08F246/00, C08G77/00 to C08G77/04 or C08G77/20 to C08G77/30.
Ex. 1: An adhesive based on methylmethacrylate monomer is classified in
(C09J4/00, C08F220/00).
Ex. 2: An adhesive based on a dialkoxysilane monomer compound is classified in (C09J4/00, C08G77/04).

3. 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 M08L or M08K 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: M08L1/00, M08L81/00, M08L83/00, M08L91/06, M08L95/00 or M08L666/02- M08L666/08, M08L666/14-M08L666/26. Examples:

a. An adhesive blend of 60 parts polyvinylchloride (C09J127/06) and 40 parts polyamide is classified in (C09J127/06, M08L666/20), M08L77/00.
b. An adhesive blend of 50 parts polyvinylchloride (C09J127/06) and 50 parts polyamide (C09J177/00) is classified in (C09J127/06, M08L666/20), (C09J177/00, M08L666/04), M08L77/00 and M08L27/06 .
c. An adhesive composition based on polyvinylchloride and containing CaCO3 is classified according to [N: Note 4 of C08K, i.e. in C08K3/26, C09J127/06. If this composition contains also a polyamide, then the classification will be (C09J127/06, M08L666/20) and M08K3/26.
d. A composition based on a first polysiloxane (C09J183/04) and containing a second polysiloxane, a phenol and silica is classified in (C09J183/04, M08L83/00, M08K5/13, M08K3/36) and M08L205/02.

4. From April 2012 onwards, after the notation of groups C09J101/00 to C09J201/00, 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 M08L1/00-555/86 or M08K and they may be linked or unlinked: - M08L1/00-M08L11/10 are linked. - M08L201/00-M08L555/86 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 C09J123/06 and M08K5/544 (unlinked).
b. An adhesive containing 80 parts of polyethene and 20 parts of polyvinylchloride is classified in group (C09J123/06, M08L27/06).
c. An adhesive containing 40 parts of polyethene and 40 parts of polyvinylchloride is classified in groups (C09J123/06, M08L27/06) and (C09J127/06, M08L23/06).
d. An adhesive containing 90% of polysiloxane (C09J183/04) further containing of polyester (M08L67/00) and an alcohol is classified in (C09J183/04, M08L67/00, M08K5/05).

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C09J1/00 **Adhesives based on inorganic constituents**

C09J1/02 . containing water-soluble alkali silicates [C1002]

C09J4/00 **Adhesives based on organic non-macromolecular compounds having at least one polymerisable carbon-to-carbon unsaturated bond;** [N: adhesives, based on monomers of macromolecular compounds of groups C09J183/00 to C09J183/16]

C09J4/06 . [N: 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 C09J159/00 to C09J187/00

C09J5/00 **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, B27G11/00) [C1002]

C09J5/02 . involving pretreatment of the surfaces to be joined

C09J5/04 . involving separate application of adhesive ingredients to the different surfaces to be joined [C1002]

C09J5/06 . involving heating of the applied adhesive

C09J5/08 . using foamed adhesives

C09J5/10 . Joining materials by welding overlapping edges with an insertion of plastic material

C09J7/00 **Adhesives in the form of films or foils**

[N: **Note**
In this group, the indexing codes of subclass M09J are used
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C09J7/02 . on carriers
C09J7/02D . . [N: essentially based on heat-curable or heat-activatable adhesive]
C09J7/02F . . characterised by pressure-sensitive adhesive
C09J7/02F2 . . . [N: based on macromolecular compounds obtained by reactions involving only carbon-to-carbon unsaturated bonds]
C09J7/02F2B . . . . [N: Natural or synthetic rubber]
C09J7/02F2D . . . . [N: Acrylic polymers]
C09J7/02F2F . . . . [N: Block-copolymers]
C09J7/02H . . [N: characterised by release features]
C09J7/02H2 . . . [N: characterised by the release coating composition] [N1111]
C09J7/02H4 . . . [N: characterised by the structure of the release liner] [N1111]
C09J7/02H6 . . . [N: characterised by the substrate of the release liner] [N1111]
C09J7/02K . . [N: on carriers other than paper or textile fabrics]
C09J7/02K2 . . . [N: essentially based on heat-curable or heat-activatable adhesive]
C09J7/02K4 . . . [N: characterised by pressure-sensitive adhesive]
C09J7/02K6 . . . [N: characterised by the release coating composition]
C09J7/02K6D . . . . [N: characterised by the structure] [N1111]
C09J7/02K8 . . . [N: characterised by the priming intermediate layer composition]
C09J7/02K9 . . . [N: characterised by the carrier]
C09J7/02K9B . . . . [N: Plastic, including metallised plastic]
C09J7/02K9B2 . . . . . [N: based on macromolecular compounds obtained by reactions involving only carbon-to-carbon unsaturated bonds]
C09J7/02K9B2B . . . . . [N: Polyolefin, including rubber]

C09J7/02K9B2B2 . . . . . {7 dots} [N: Ethylene or propylene polymers]
C09J7/02K9B2D . . . . . [N: Vinyl resins, e.g. PVC]
C09J7/02K9B4 . . . . . [N: based on macromolecular compounds obtained otherwise than by reactions involving only carbon-to-carbon unsaturated bonds]
C09J7/02K9B4B . . . . . [N: Polyester]
C09J7/02K9B6 . . . . . [N: Porous or cellular plastic]
C09J7/02K9D . . . . [N: Metal sheet]
C09J7/02K9F . . . . [N: Laminates]
C09J7/04 . . on paper or textile fabric (adhesive bandages, dressings or adsorbent pads, [N: e.g. plasters], A61L15/06)
C09J7/04B . . . [N: characterised by the adhesive composition]
C09J7/04B2 . . . . [N: Water-activatable adhesive, e.g. gummed paper]
C09J7/04B4 . . . . [N: Heat-curable or heat-activatable adhesive]
C09J7/04B6 . . . . [N: Pressure-sensitive adhesive]
C09J7/04H . . . [N: characterised by the release coating composition]
C09J7/04H4 . . . . [N: characterised by the structure] [N1111]
C09J7/04K . . . [N: characterised by the backing impregnating composition]

C09J9/00 **Adhesives characterised by their physical nature or the effects produced, e.g. glue sticks** (C09J7/00 takes precedence) [N9409] [C1002]

C09J9/00B . Glue sticks [N1105]

C09J9/02 . Electrically-conducting adhesives [N9409]

C09J11/00 **Features of adhesives not provided for in group C09J9/00, e.g. additives** [N9409] [C1002]

C09J11/02 . Non-macromolecular additives [N9409]
C09J11/04 . . inorganic [N9409]
C09J11/06 . . organic [N9409]

C09J11/08 . Macromolecular additives [N9409]

Guide heading: **Adhesives based on polysaccharides or on their derivatives**

C09J101/00 **Adhesives based on cellulose, modified cellulose, or cellulose derivatives**

C09J101/02 . Cellulose; Modified cellulose
C09J101/04 . . Oxycellulose; Hydrocellulose
C09J101/06 . . Cellulose hydrate

C09J101/08 . Cellulose derivatives
C09J101/10 . . Esters of organic acids (of both organic acids and inorganic acids C09J101/20) [C1002]

C09J101/12 . . . Cellulose acetate
C09J101/14 . . . Mixed esters, e.g. cellulose acetate-butyrate
C09J101/16 . . Esters of inorganic acids (of both organic acids and inorganic acids C09J101/20) [C1002]
C09J101/18 . . . Cellulose nitrate
C09J101/20 . . Esters of both organic acids and inorganic acids
C09J101/22 . . Cellulose xanthate
C09J101/24 . . . Viscose
C09J101/26 . . Cellulose ethers
C09J101/28 . . . Alkyl ethers
C09J101/28B . . . . [N: with halogen-substituted hydrocarbon radicals]
C09J101/28D . . . . [N: with hydroxylated hydrocarbon radicals]
C09J101/28F . . . . [N: substituted with acid radicals (C09J101/28B takes precedence)]
C09J101/28H . . . . [N: substituted with nitrogen containing radicals]
C09J101/30 . . . Aryl ethers; Aralkyl ethers
C09J101/32 . . Cellulose ether-esters

C09J103/00 Adhesives based on starch, amylose or amylopectin or on their derivatives or degradation products

C09J103/02 . Starch; Degradation products thereof, e.g. dextrin

C09J103/04 . Starch derivatives
C09J103/06 . . Esters
C09J103/08 . . Ethers
C09J103/10 . . Oxidised starch

C09J103/12 . Amylose; Amylopectin; Degradation products thereof

C09J103/14 . Amylose derivatives; Amylopectin derivatives
C09J103/16 . . Esters
C09J103/18 . . Ethers
C09J103/20 . . Oxidised amylose; Oxidised amylopectin

C09J105/00 Adhesives based on polysaccharides or on their derivatives, not provided for in groups C09J101/00 or C09J103/00

C09J105/02 . Dextran; Derivatives thereof

C09J105/04 . Alginic acid; Derivatives thereof

C09J105/06 . Pectin; Derivatives thereof

C09J105/08 . Chitin; Chondroitin sulfate; Hyaluronic acid; Derivatives thereof

C09J105/10 . Heparin; Derivatives thereof

C09J105/12 . Agar-agar; Derivatives thereof

C09J105/14 . Hemicellulose; Derivatives thereof

C09J105/16 . Cyclodextrin; Derivatives thereof

Guide heading: **Adhesives based on rubbers or on their derivatives**

C09J107/00 **Adhesives based on natural rubber**

C09J107/02 . Latex

C09J109/00 **Adhesives based on homopolymers or copolymers of conjugated diene hydrocarbons**

C09J109/02 . Copolymers with acrylonitrile

C09J109/04 . . Latex

C09J109/06 . Copolymers with styrene

C09J109/08 . . Latex

C09J109/10 . Latex (C09J109/04, C09J109/08 take precedence)

C09J111/00 **Adhesives based on homopolymers or copolymers of chloroprene**

C09J111/02 . Latex

C09J113/00 **Adhesives based on rubbers containing carboxyl groups**

C09J113/02 . Latex

C09J115/00 **Adhesives based on rubber derivatives** (C09J111/00, C09J113/00 take precedence)

C09J115/00B . [N: Hydrogenated nitrile rubber]

C09J115/02 . Rubber derivatives containing halogen

C09J117/00 **Adhesives based on reclaimed rubber**

C09J119/00 **Adhesives based on rubbers, not provided for in groups C09J107/00 to C09J117/00**

C09J119/00B . [N: Precrosslinked rubber; Scrap rubber; Used vulcanised rubber]

C09J119/00D . [N: Rubber characterised by functional groups, e.g. telechelic diene polymers]

C09J119/02 . Latex

C09J121/00 **Adhesives based on unspecified rubbers**

C09J121/02 . Latex

Guide heading: **Adhesives based on organic macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds**

C09J123/00 **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**

C09J123/02 . not modified by chemical after-treatment
C09J123/02D . . [N: Copolymer of an unspecified olefine with a monomer other than an olefine]
C09J123/04 . . Homopolymers or copolymers of ethene
C09J123/06 . . . Polyethene
C09J123/08 . . . Copolymers of ethene (C09J123/16 takes precedence)
C09J123/08A . . . . [N: Copolymers of ethene with unsaturated hydrocarbons only containing more than three carbon atoms] [N0310]
C09J123/08A1 . . . . . [N: Copolymers of ethene with aliphatic 1-olefins] [N0310]
C09J123/08A1A . . . . . [N: Copolymers of ethene with aliphatic cyclic olefins] [N0310]
C09J123/08A3 . . . . . [N: Copolymers of ethene with aliphatic polyenes, i.e. containing more than one unsaturated bond] [N0310]
C09J123/08A5 . . . . . [N: Copolymers of ethene with aromatic monomers] [N0310]
C09J123/08C . . . . [N: Copolymers of ethene with unsaturated hydrocarbons containing other atoms than carbon or hydrogen atoms] [N0310]
C09J123/08C1 . . . . . [N: Vinylacetate] [N0310]
C09J123/08C1A . . . . . [N: Saponified vinylacetate] [N0310]
C09J123/08C3 . . . . . [N: Acids or derivatives thereof] [N0310]
C09J123/08C3A . . . . . [N: Neutralised polymers, i.e. ionomers] [N0310]
C09J123/08C3C . . . . . [N: Epoxide containing esters] [N0310]
C09J123/08C5 . . . . . [N: containing monomers with other atoms than carbon, hydrogen or oxygen atoms] [N0310]
C09J123/10 . . Homopolymers or copolymers of propene
C09J123/12 . . . Polypropene
C09J123/14 . . . Copolymers of propene (C09J123/16 takes precedence)
C09J123/14A . . . . [N: at least partially crystalline copolymers of propene with other olefins] [N0310]
C09J123/14B . . . . [N: Copolymers of propene with monomers having more than one C=C double bond] [N0310]
C09J123/14C . . . . [N: Copolymers of propene with monomers containing other atoms than carbon or hydrogen atoms] [N0310]
C09J123/16 . . [N: Elastomeric] ethene-propene or ethene-propene-diene copolymers, [N: e.g. EPR and EPDM rubbers] [C0310]

[N: **Note**
[N0310]This group is used for polymers comprising both ethylene and propylene
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C09J123/18 . . Homopolymers or copolymers of hydrocarbons having four or more carbon atoms

C09J123/20 . . . having four to nine carbon atoms

C09J123/22 . . . . Copolymers of isobutene; Butyl rubber [N: Homo- or copolymers of other iso-olefines]

C09J123/24 . . . having ten or more carbon atoms

C09J123/26 . modified by chemical after-treatment

C09J123/28 . . by reaction with halogens or compounds containing halogen (C09J123/32 takes precedence)

C09J123/28B . . . [N: Halogenated homo- or copolymers of iso-olefines]

C09J123/28D . . . [N: Chlorinated polyethylene]

C09J123/30 . . by oxidation

C09J123/32 . . by reaction with compounds containing phosphorus or sulfur

C09J123/34 . . . by chlorosulfonation

C09J123/36 . . by reaction with compounds containing nitrogen, e.g. by nitration

C09J125/00 **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**

C09J125/02 . Homopolymers or copolymers of hydrocarbons

C09J125/04 . . Homopolymers or copolymers of styrene

C09J125/06 . . . Polystyrene

C09J125/08 . . . Copolymers of styrene (C09J129/08, C09J135/06, C09J155/02 take precedence)

C09J125/10 . . . . with conjugated dienes

C09J125/12 . . . . with unsaturated nitriles

C09J125/14 . . . . with unsaturated esters

C09J125/16 . . Homopolymers or copolymers of alkyl-substituted styrenes

C09J125/18 . Homopolymers or copolymers of aromatic monomers containing elements other than carbon and hydrogen

C09J127/00 **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**

C09J127/02 . not modified by chemical after-treatment

C09J127/04 . . containing chlorine atoms

C09J127/06 . . . Homopolymers or copolymers of vinyl chloride

C09J127/08 . . . Homopolymers or copolymers of vinylidene chloride

C09J127/10 . . containing bromine or iodine atoms
C09J127/12 . . containing fluorine atoms
C09J127/14 . . . Homopolymers or copolymers of vinyl fluoride
C09J127/16 . . . Homopolymers or copolymers of vinylidene fluoride
C09J127/18 . . . Homopolymers or copolymers of tetrafluoroethene
C09J127/20 . . . Homopolymers or copolymers of hexafluoropropene

C09J127/22 . modified by chemical after-treatment
C09J127/24 . . halogenated

C09J129/00 **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**

C09J129/02 . Homopolymers or copolymers of unsaturated alcohols (C09J129/14 takes precedence)
C09J129/04 . . Polyvinyl alcohol; Partially hydrolysed homopolymers or copolymers of esters of unsaturated alcohols with saturated carboxylic acids
C09J129/06 . . Copolymers of allyl alcohol
C09J129/08 . . . with vinyl aromatic monomers

C09J129/10 . Homopolymers or copolymers of unsaturated ethers (C09J135/08 takes precedence)

C09J129/12 . Homopolymers or copolymers of unsaturated ketones

C09J129/14 . Homopolymers or copolymers of acetals or ketals obtained by polymerisation of unsaturated acetals or ketals or by after-treatment of polymers of unsaturated alcohols

C09J131/00 **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 C09J129/00)**; Adhesives based on derivatives of such polymers**

C09J131/02 . Homopolymers or copolymers of esters of monocarboxylic acids
C09J131/04 . . Homopolymers or copolymers of vinyl acetate

C09J131/06 . Homopolymers or copolymers of esters of polycarboxylic acids
C09J131/08 . . of phthalic acid

C09J133/00 **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**

C09J133/02 . Homopolymers or copolymers of acids; Metal or ammonium salts thereof

C09J133/04 . Homopolymers or copolymers of esters [N: C09J143/04 takes precedence]

C09J133/06 . . of esters containing only carbon, hydrogen and oxygen, the oxygen atom being present only as part of the carboxyl radical [C1002]

C09J133/06B . . . [N: Copolymers with monomers not covered by C09J133/06]

C09J133/06B2 . . . . [N: containing anhydride, COOH or COOM groups, with M being metal or onium-cation]

C09J133/06B4 . . . . [N: containing -OH groups]

C09J133/06B6 . . . . [N: containing glycidyl groups]

C09J133/08 . . . Homopolymers or copolymers of acrylic acid esters

C09J133/10 . . . Homopolymers or copolymers of methacrylic acid esters

C09J133/12 . . . . Homopolymers or copolymers of methyl methacrylate

C09J133/14 . . of esters containing halogen, nitrogen, sulfur or oxygen atoms in addition to the carboxy oxygen [C1002]

C09J133/16 . . . Homopolymers or copolymers of esters containing halogen atoms

C09J133/18 . Homopolymers or copolymers of nitriles

C09J133/20 . . Homopolymers or copolymers of acrylonitrile (C09J155/02 takes precedence)

C09J133/22 . . Homopolymers or copolymers of nitriles containing four or more carbon atoms

C09J133/24 . Homopolymers or copolymers of amides or imides

C09J133/26 . . Homopolymers or copolymers of acrylamide or methacrylamide

C09J135/00 **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**

C09J135/02 . Homopolymers or copolymers of esters (C09J135/06, C09J135/08 take precedence)

C09J135/04 . Homopolymers or copolymers of nitriles (C09J135/06, C09J135/08 take precedence)

C09J135/06 . Copolymers with vinyl aromatic monomers

C09J135/08 . Copolymers with vinyl ethers

C09J137/00 **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 C09J131/00; based on polymers of cyclic anhydrides of unsaturated acids C09J135/00)**; Adhesives based on derivatives of such polymers**

C09J139/00 **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**

C09J139/02 . Homopolymers or copolymers of vinylamine

C09J139/04 . Homopolymers or copolymers of monomers containing heterocyclic rings having nitrogen as ring member

C09J139/06 . . Homopolymers or copolymers of N-vinyl-pyrrolidones

C09J139/08 . . Homopolymers or copolymers of vinyl-pyridine

C09J141/00 **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**

C09J143/00 **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** [C1002]

C09J143/02 . Homopolymers or copolymers of monomers containing phosphorus

C09J143/04 . Homopolymers or copolymers of monomers containing silicon

C09J145/00 **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 C09J131/00; based on polymers of cyclic anhydrides or imides C09J135/00)

C09J145/02 . Coumarone-indene polymers

C09J147/00 **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** (C09J145/00 takes precedence; based on conjugated diene rubbers C09J109/00 to C09J121/00)

C09J149/00 **Adhesives based on homopolymers or copolymers of compounds having one or more carbon-to-carbon triple bonds; Adhesives based on derivatives of such polymers**

C09J151/00 **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 C09J155/02)**; Adhesives based on derivatives of such polymers**

C09J151/00B . [N: grafted on to macromolecular compounds obtained by reactions only involving unsaturated carbon-to-carbon bonds (C09J151/04, C09J151/06 take precedence)]

C09J151/00C . [N: grafted on to block copolymers containing at least one sequence of polymer obtained by reactions only involving carbon-to-carbon unsaturated bonds] [N9409]

C09J151/02 . grafted on to polysaccharides

C09J151/04 . grafted on to rubbers

C09J151/06 . grafted on to homopolymers or copolymers of aliphatic hydrocarbons containing only one carbon-to-carbon double bond

C09J151/08 . grafted on to macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds

C09J151/08S . . [N: on to polysiloxanes]

C09J151/10 . grafted on to inorganic materials

C09J153/00 **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**

C09J153/00B . [N: Modified block copolymers] [N9409]

C09J153/02 . Vinyl aromatic monomers and conjugated dienes

C09J153/02B . . [N: modified] [N9409]

C09J155/00 **Adhesives based on homopolymers or copolymers, obtained by polymerisation reactions only involving carbon-to-carbon unsaturated bonds, not provided for in groups C09J123/00 to C09J153/00**

C09J155/00B . [N: Homopolymers or copolymers obtained by polymerisation of macromolecular compounds terminated by a carbon-to-carbon double bond]

C09J155/02 . ABS [Acrylonitrile-Butadiene-Styrene] polymers [C1002]

C09J155/04 . Polyadducts obtained by the diene synthesis

C09J157/00 **Adhesives based on unspecified polymers obtained by reactions only involving carbon-to-carbon unsaturated bonds**

C09J157/02 . Copolymers of mineral oil hydrocarbons

C09J157/04 . Copolymers in which only the monomer in minority is defined

C09J157/06 . Homopolymers or copolymers containing elements other than carbon and hydrogen

C09J157/08 . . containing halogen atoms

C09J157/10 . . containing oxygen atoms

C09J157/12 . . containing nitrogen atoms

Guide heading: **Adhesives based on organic macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds**

C09J159/00 **Adhesives based on polyacetals; Adhesives based on derivatives of polyacetals**

C09J159/02 . Polyacetals containing polyoxymethylene sequences only

C09J159/04 . Copolyoxymethylenes

C09J161/00 **Adhesives based on condensation polymers of aldehydes or ketones** (with polyalcohols C09J159/00; with polynitriles C09J177/00)**; Adhesives based on derivatives of such polymers**

C09J161/02 . Condensation polymers of aldehydes or ketones only

C09J161/04 . Condensation polymers of aldehydes or ketones with phenols only

C09J161/06 . . of aldehydes with phenols

C09J161/12 . . . with polyhydric phenols

C09J161/14 . . . Modified phenol-aldehyde condensates

C09J161/16 . . of ketones with phenols

C09J161/18 . Condensation polymers of aldehydes or ketones with aromatic hydrocarbons or their halogen derivatives only

C09J161/20 . Condensation polymers of aldehydes or ketones with only compounds containing hydrogen attached to nitrogen (with amino phenols C09J161/04)

C09J161/22 . . of aldehydes with acyclic or carbocyclic compounds

C09J161/24 . . . with urea or thiourea

C09J161/26 . . of aldehydes with heterocyclic compounds

C09J161/28 . . . with melamine

C09J161/30 . . of aldehydes with heterocyclic and acyclic or carbocyclic compounds

C09J161/32 . . Modified amine-aldehyde condensates

C09J161/34 . Condensation polymers of aldehydes or ketones with monomers covered by at least two of the groups C09J161/04, C09J161/18 and C09J161/20

C09J163/00 **Adhesives based on epoxy resins; Adhesives based on derivatives of epoxy resins**

C09J163/04 . Epoxynovolacs

C09J163/06 . Triglycidylisocyanurates

C09J163/08 . Epoxidised polymerised polyenes

C09J163/10 . Epoxy resins modified by unsaturated compounds

Note
In groups C09J165/00 to C09J185/00, 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.

C09J165/00 **Adhesives based on macromolecular compounds obtained by reactions forming a carbon-to-carbon link in the main chain** (C09J107/00 to C09J157/00, C09J161/00 take precedence)**; Adhesives based on derivatives of such polymers**

C09J165/02 . Polyphenylenes

C09J165/04 . Polyxylylenes

C09J167/00 **Adhesives based on polyesters obtained by reactions forming a carboxylic ester link in the main chain** (based on polyester-amides C09J177/12; based on polyester-imides C09J179/08)**; Adhesives based on derivatives of such polymers**

C09J167/02 . Polyesters derived from dicarboxylic acids and dihydroxy compounds (C09J167/06 takes precedence)

C09J167/02B . . [N: containing polyether sequences]

C09J167/03 . . the dicarboxylic acids and dihydroxy compounds having the carboxyl - and the hydroxy groups directly linked to aromatic rings

C09J167/04 . Polyesters derived from hydroxycarboxylic acids, e.g. lactones (C09J167/06 takes precedence)

C09J167/06 . Unsaturated polyesters having carbon-to-carbon unsaturation

C09J167/07 . . having terminal carbon-to-carbon unsaturated bonds

C09J167/08 . Polyesters modified with higher fatty oils or their acids, or with natural resins or resin acids

C09J169/00 **Adhesives based on polycarbonates; Adhesives based on derivatives of polycarbonates**

C09J169/00B . [N: Polyester-carbonates]

C09J171/00 **Adhesives based on polyethers obtained by reactions forming an ether link in the main chain** (based on polyacetals C09J159/00; based on epoxy resins C09J163/00; based on polythioether-ethers C09J181/02; based on polyethersulfones C09J181/06)**; Adhesives based on derivatives of such polymers**

C09J171/02 . Polyalkylene oxides

C09J171/03 . . Polyepihalohydrins

C09J171/08 . Polyethers derived from hydroxy compounds or from their metallic derivatives (C09J171/02 takes precedence) [N: not used] [N0409]

C09J171/10 . . from phenols [N: not used] [N0409]

C09J171/12 . . . Polyphenylene oxides[N0409] [C0409]

C09J171/14 . . Furfuryl alcohol polymers[N0409] [C0409]

C09J173/00 **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 C09J159/00 to C09J171/00; Adhesives based on derivatives of such polymers**

C09J173/02 . Polyanhydrides

C09J175/00 **Adhesives based on polyureas or polyurethanes; Adhesives based on derivatives of such polymers**

C09J175/02 . Polyureas

C09J175/04 . Polyurethanes
C09J175/06 . . from polyesters
C09J175/08 . . from polyethers
C09J175/10 . . from polyacetals
C09J175/12 . . from compounds containing nitrogen and active hydrogen, the nitrogen atom not being part of an isocyanate group
C09J175/14 . . Polyurethanes having carbon-to-carbon unsaturated bonds
C09J175/16 . . . having terminal carbon-to-carbon unsaturated bonds

C09J177/00 **Adhesives based on polyamides obtained by reactions forming a carboxylic amide link in the main chain** (based on polyhydrazides C09J179/06; based oC09Jn polyamide-imides C09J179/08)**; Adhesives based on derivatives of such polymers**

C09J177/02 . Polyamides derived from omega-amino carboxylic acids or from lactams thereof (C09J177/10 takes precedence)

C09J177/04 . Polyamides derived from alpha-amino carboxylic acids (C09J177/10 takes precedence)

C09J177/06 . Polyamides derived from polyamines and polycarboxylic acids (C09J177/10 takes precedence)
C09J177/08 . . from polyamines and polymerised unsaturated fatty acids

C09J177/10 . Polyamides derived from aromatically bound amino and carboxyl groups of amino carboxylic acids or of polyamines and polycarboxylic acids

C09J177/12 . Polyester-amides

C09J179/00 **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 C09J161/00 to C09J177/00**

C09J179/02 . Polyamines

C09J179/04 . Polycondensates having nitrogen-containing heterocyclic rings in the main chain; Polyhydrazides; Polyamide acids or similar polyimide precursors
C09J179/06 . . Polyhydrazides; Polytriazoles; Polyamino-triazoles; Polyoxadiazoles
C09J179/08 . . Polyimides; Polyester-imides; Polyamide-imides; Polyamide acids or similar polyimide precursors
C09J179/08B . . . [N: Unsaturated polyimide precursors]

C09J181/00 **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

C09J181/02 . Polythioethers; Polythioether-ethers

C09J181/04 . Polysulfides

C09J181/06 . Polysulfones; Polyethersulfones

C09J181/08 . Polysulfonates

C09J181/10 . Polysulfonamides; Polysulfonimides

C09J183/00 **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**

[N: **Note** [N1010]
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. C09J183/04+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 ICO symbols, e.g. M08G77/12 and M08G77/20
]

C09J183/02 . Polysilicates

C09J183/04 . Polysiloxanes

C09J183/06 . . containing silicon bound to oxygen-containing groups (C09J183/12 takes precedence)

C09J183/08 . . containing silicon bound to organic groups containing atoms other than carbon, hydrogen, and oxygen

C09J183/10 . Block or graft copolymers containing polysiloxane sequences (obtained by polymerising a compound having a carbon-to-carbon double bond on to a polysiloxane C09J151/08, C09J153/00)

C09J183/12 . . containing polyether sequences

C09J183/14 . in which at least two but not all the silicon atoms are connected by linkages other than oxygen atoms (C09J183/10 takes precedence)

C09J183/16 . in which all the silicon atoms are connected by linkages other than oxygen atoms

C09J185/00 **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**

C09J185/02 . containing phosphorus

C09J185/04 . containing boron

C09J187/00 **Adhesives based on unspecified macromolecular compounds, obtained otherwise than by polymerisation reactions only involving unsaturated carbon-to-carbon bonds**

C09J187/00B . [N: Block or graft polymers not provided for in groups C09J101/00 to C09J185/04]

Guide heading: **Adhesives based on natural macromolecular compounds or on derivatives thereof** (based on polysaccharides C09J101/00 to C09J105/00; based on natural rubber C09J107/00)

C09J189/00 **Adhesives based on proteins; Adhesives based on derivatives thereof** (foodstuff preparations A23J3/00)

C09J189/00B . [N: Casein]

C09J189/02 . Casein-aldehyde condensates

C09J189/04 . Products derived from waste materials, e.g. horn, hoof or hair [N1002]

C09J189/06 . . derived from leather or skin

C09J191/00 **Adhesives based on oils, fats or waxes; Adhesives based on derivatives thereof** (polishing compositions, ski waxes C09G; soaps, detergent compositions C11D)

C09J191/00B . [N: Drying oils]

C09J191/02 . Vulcanised oils, e.g. factice

C09J191/04 . Linoxyn

C09J191/06 . Waxes

C09J191/08 . . Mineral waxes [C1002]

C09J193/00 **Adhesives based on natural resins; Adhesives based on derivatives thereof** (polishing compositions C09G)

C09J193/02 . Shellac

C09J193/04 . Rosin

C09J195/00 **Adhesives based on bituminous materials, e.g. asphalt, tar, pitch**

C09J195/00B . [N: Aqueous compositions, e.g. emulsions]

C09J197/00 **Adhesives based on lignin-containing materials**

C09J197/00B . [N: Peat, lignite, coal (briquettes C10L5/00; working-up peat; ceramic products based on carbon or carbides)]

C09J197/00C . [N: Lignin]

C09J197/00D . [N: Cork]

C09J197/02 . Lignocellulosic material, e.g. wood, straw or bagasse [C1002]

C09J199/00 **Adhesives based on natural macromolecular compounds or on derivatives thereof, not provided for in groups C09J189/00 to C09J197/00**

C09J201/00 **Adhesives based on unspecified macromolecular compounds**

C09J201/00B . [N: Dendritic macromolecules] [N9712] [C0007]

C09J201/02 . characterised by the presence of specified groups, [N: e.g. terminal or pendant functional groups] [C0005]

C09J201/02N . . [N: containing nitrogen atoms] [N0005]

C09J201/04 . . containing halogen atoms

C09J201/06 . . containing oxygen atoms [N: (C09J201/02N takes precedence)] [C0005]

C09J201/08 . . . Carboxyl groups

C09J201/10 . . containing hydrolysable silane groups