

**CPC****COOPERATIVE PATENT CLASSIFICATION****D06N**

**WALL, FLOOR OR LIKE COVERING MATERIALS, e.g. LINOLEUM, OILCLOTH, ARTIFICIAL LEATHER, ROOFING FELT, CONSISTING OF A FIBROUS WEB COATED WITH A LAYER OF MACROMOLECULAR MATERIAL; FLEXIBLE SHEET MATERIAL NOT OTHERWISE PROVIDED FOR** ([laminates in general B32B](#) ; coated webs which retain the character of paper or cardboard [D21](#) )

**NOTE**

Layered products classified in this subclass are also classified in subclass [B32B](#) .

**WARNING**

The following IPC groups are not used in the CPC scheme. Subject matter covered by these groups is classified in the following CPC groups:

[D06N 7/02](#) covered by [D06M](#) , [D06N](#)  
[D06N 7/04](#) " " [D06M](#) , [D06N](#)  
[D06N 7/06](#) " " [D06M](#) , [D06N](#)

**Guidance heading:****D06N 1/00**

**Linoleum** {e.g. linoxyn, polymerised or oxidised resin }

**D06N 3/00**

**Artificial leather, oilcloth or { other } material obtained by covering fibrous webs with macromolecular material, e.g. resins, rubber or derivatives thereof**

[D06N 3/0002](#)

. { characterised by the substrate }

[D06N 3/0004](#)

.. { using ultra-fine two-component fibres, e.g. island/sea, or ultra-fine one component fibres (< 1 denier) }

[D06N 3/0006](#)

.. { using woven fabrics }

[D06N 3/0009](#)

.. { using knitted fabrics }

[D06N 3/0011](#)

.. { using non-woven fabrics }

[D06N 3/0013](#)

.. { using multilayer webs }

[D06N 3/0015](#)

.. {using fibres of specified chemical or physical nature, e.g. natural silk }

[D06N 3/0018](#)

... {Collagen fibres or collagen on fibres }

[D06N 3/002](#)

... {Asbestos fibres }

[D06N 3/0022](#)

... {Glass fibres }

[D06N 3/0025](#)

... { Rubber threads; Elastomeric fibres; Stretchable, bulked or crimped fibres; Retractable, crimpable fibres; Shrinking or stretching of fibres during manufacture; Obliquely threaded fabrics }

[D06N 3/0027](#)

.... { Rubber or elastomeric fibres }

**WARNING**

Groups [D06N 3/0027-D06N 3/0031](#) are not complete, pending reorganisation. See also [D06N 3/0025](#)

- D06N 3/0029 . . . . { Stretchable fibres; Stretching of fibres during manufacture }
- D06N 3/0031 . . . . { Retractable fibres; Shrinking of fibres during manufacture }
- D06N 3/0034 . . . { Polyamide fibres (for elastomeric fibres [D06N 3/0025](#)) }
- D06N 3/0036 . . . { Polyester fibres (for elastomeric fibres [D06N 3/0025](#)) }
- D06N 3/0038 . . . { Polyolefin fibres (for elastomeric fibres [D06N 3/0025](#)) }
- D06N 3/004 . . { using flocked webs or pile fabrics upon which a resin is applied; Teasing, raising web before resin application }
  
- D06N 3/0043 . { characterised by their foraminous structure; Characteristics of the foamed layer or of cellular layers (foraminous structure obtained by stretching [D06N 3/0029](#)) }
- D06N 3/0045 . . { obtained by applying a ready-made foam layer; obtained by compressing, crinkling or crushing a foam layer, e.g. Kaschiervorfahren für Schaumschicht }
- D06N 3/0047 . . { obtained by incorporating air, i.e. froth }
- D06N 3/005 . . { obtained by blowing or swelling agent }
- D06N 3/0052 . . { obtained by leaching out of a compound, e.g. water soluble salts, fibres or fillers; obtained by freezing or sublimation; obtained by eliminating drops of sublimable fluid }
- D06N 3/0054 . . { obtained by mechanical perforations }
  
- D06N 3/0056 . { characterised by the compounding ingredients of the macro-molecular coating } ([D06N 3/005](#) takes precedence)
- D06N 3/0059 . . { Organic ingredients with special effects, e.g. oil- or water-repellent, antimicrobial, flame-resistant, magnetic, bactericidal, odour-influencing agents; perfumes } ([D06N 3/0065](#) takes precedence)
- D06N 3/0061 . . { Organic fillers or organic fibrous fillers, e.g. ground leather waste, wood bark, cork powder, vegetable flour; Other organic compounding ingredients; Post-treatment with organic compounds }
- D06N 3/0063 . . { Inorganic compounding ingredients, e.g. metals, carbon fibres, Na<sub>2</sub>CO<sub>3</sub>, metal layers; Post-treatment with inorganic compounds }
- D06N 3/0065 . . { Organic pigments, e.g. dyes, brighteners }
- D06N 3/0068 . . { Polymeric granules, particles or powder, e.g. core-shell particles, microcapsules }
  
- D06N 3/007 . { characterised by mechanical or physical treatments } ([D06N 3/0029](#), [D06N 3/0031](#) take precedence)
- D06N 3/0072 . . { Slicing; Manufacturing two webs at one time }
- D06N 3/0075 . . { Napping, teasing, raising or abrading of the resin coating (raising, napping of the web before coating [D06N 3/004](#)) }
- D06N 3/0077 . . { Embossing; Pressing of the surface; Tumbling and crumbling; Cracking; Cooling; Heating, e.g. mirror finish }
- D06N 3/0079 . . { Suction, vacuum treatment }
- D06N 3/0081 . . { by wave energy or particle radiation } ([D06N 3/08](#) takes precedence)
- D06N 3/0084 . . { by electrical processes, e.g. potentials, corona discharge, electrophoresis, electrolytic }
  
- D06N 3/0086 . { characterised by the application technique }

- D06N 3/0088 . . { by directly applying the resin ([D06N 3/0045](#) takes precedence) }
- D06N 3/009 . . . {by spraying components on the web ([powder D06N 3/0093](#)) }
- D06N 3/0093 . . . {by applying resin powders; by sintering }
- D06N 3/0095 . . {by inversion technique; by transfer processes }
- D06N 3/0097 . . . {Release surface, e.g. separation sheets; Silicone papers }
  
- D06N 3/02 . with cellulose derivatives
  
- D06N 3/04 . with macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
  
- D06N 3/042 . . { Acrylic polymers ([D06N 3/045](#) takes precedence) }
- D06N 3/045 . . { with polyolefin or polystyrene (co-)polymers }
- D06N 3/047 . . {with fluoropolymers }
- D06N 3/06 . . with polyvinylchloride or its copolymerisation products { ([surface treatment or foaming for floor coverings D06N 7/0007](#)) }
- D06N 3/065 . . . {PVC together with other resins except polyurethanes ([with polyurethanes D06N 3/144](#)) }
- D06N 3/08 . . . with a finishing layer consisting of polyacrylates, polyamides or polyurethanes {or polyester }
- D06N 3/10 . . with styrene-butadiene copolymerisation products { or other synthetic rubbers or elastomers except polyurethanes }
- D06N 3/103 . . . { Thermosetting synthetic rubbers }
- D06N 3/106 . . . { Elastomers }
  
- D06N 3/12 . with macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds, {e.g. [gelatine proteins](#) }
  
- D06N 3/121 . . {with polyesters, polycarbonates, alkyds ([oils D06N 3/16](#)) }
- D06N 3/123 . . . { with polyesters }
- D06N 3/125 . . {with polyamides }
- D06N 3/126 . . . {Poly-amino acids, e.g. polyglutamates }
- D06N 3/128 . . {with silicon polymers }
- D06N 3/14 . . with polyurethanes
- D06N 3/141 . . . { mixture of two or more polyurethanes in the same layer }
- D06N 3/142 . . . { mixture of polyurethanes with other resins in the same layer }
- D06N 3/143 . . . . {with polyurethanes and other polycondensation or polyaddition products, e.g. aminoplast }
- D06N 3/144 . . . . {with polyurethane and polymerisation products, e.g. acrylics, PVC }
- D06N 3/145 . . . {two or more layers of polyurethanes }
- D06N 3/146 . . . {characterised by the macromolecular diols used }
- D06N 3/147 . . . {characterised by the isocyanates used }
- D06N 3/148 . . . . {(cyclo)aliphatic polyisocyanates }
  
- D06N 3/16 . with oil varnishes {i.e. drying oil varnishes, preferably linseed-oil-based; [factice \(sulfurised oils\)](#) , Turkish birdlime, resins reacted with drying oils; naphthenic metal salts }
  
- D06N 3/18 . with two layers of different macromolecular materials ([D06N 3/08](#) takes precedence) ; { ([with two layers of the same kind of macromolecular material D06N 2213/03](#)) }

D06N 3/183 . . { the layers are one next to the other }

### **WARNING**

Groups [D06N 3/183](#) and [D06N 3/186](#) are not complete, pending reorganisation. See also [D06N 3/18](#)

D06N 3/186 . . { one of the layers is on one surface of the fibrous web and the other layer is on the other surface of the fibrous web }

**D06N 5/00** { Roofing materials comprising a fibrous web coated with bitumen or another polymer, e.g. pitch (compositions of bituminous materials [C08L 95/00](#), roof covering [E04D 5/00](#), roofing underlays [E04D 12/002](#)) }

D06N 5/003 . { coated with bitumen }

D06N 5/006 . . { characterised by the means to apply it to a support or to another roofing membrane, e.g. self-adhesive layer or strip }

**D06N 7/00** **Flexible sheet materials not otherwise provided for, e.g. textile threads, filaments, yarns or tow, glued on macromolecular material,** {e.g. fibrous top layer with resin backing, plastic naps or dots on fabrics }

D06N 7/0002 . { Wallpaper or wall covering on textile basis }

### **WARNING**

groups [D06N 7/00A](#), [D06N 7/00D-D06N 7/0097](#) are not complete, pending reorganisation. See also [D06N 7/00](#)

D06N 7/0005 . { Floor covering on textile basis comprising a fibrous substrate being coated with at least one layer of a polymer on the top surface }

D06N 7/0007 . . {characterised by their relief structure }

D06N 7/001 . . . {obtained by mechanical embossing }

D06N 7/0013 . . . {obtained by chemical embossing ([chemisches Prägen](#)) }

D06N 7/0015 . . . . {use of inhibitor for the blowing agent or inhibitor for the kicker e.g. trimellitic anhydride, triazole }

D06N 7/0018 . . . . {use of kicker for the blowing agent, e.g. Beschleunigungsverfahren }

D06N 7/0021 . . . . {use of a swelling agent }

D06N 7/0023 . . . {obtained by physical means, e.g. differential heating or differential irradiation; masking certain areas during treating }

D06N 7/0026 . . . {obtained by moulding, e.g. moulding table ([tapis moule](#)) }

D06N 7/0028 . . {characterised by colour effects, e.g. craquelè, reducing gloss ([terrazzo by sintering D06N 7/0057](#)) }

D06N 7/0031 . . . {mixture of two or more dyes, pigments, brighteners in the same layer }

D06N 7/0034 . . . {two or more different colour layers }

D06N 7/0036 . . { characterised by their backing, e.g. secondary backing, back-sizing }

D06N 7/0039 . . {characterised by the physical or chemical aspects of the layers }

D06N 7/0042 . . . { Conductive or insulating layers; Antistatic layers; Flame-proof layers }

- D06N 7/0044 . . . {Sealing or barrier layers, e.g. against solvents, asphalt, plasticisers }
- D06N 7/0047 . . . { Special extra layers under the surface coating, e.g. wire threads }
- D06N 7/0049 . . . . {Fibrous layer(s); Fibre reinforcement; Fibrous fillers }
- D06N 7/0052 . . . { Compounding ingredients, e.g. rigid elements (compounding ingredients of the macromolecular coating [D06N 3/0056](#)) }
- D06N 7/0055 . . . . {Particulate material such as cork, rubber particles, reclaimed resin particles, magnetic particles, metal particles, glass beads }
- D06N 7/0057 . . . {Layers obtained by sintering or glueing the granules together }
- D06N 7/006 . . {characterised by the textile substrate as base web (for intermediate fibrous webs [D06N 7/0049](#)) }

- D06N 7/0063 . { Floor covering on textile basis comprising a fibrous top layer being coated at the back with at least one polymer layer, e.g. carpets, rugs, synthetic turf }

**WARNING**

Groups [D06N 7/00C-D06N 7/0084](#) are not complete, pending reorganisation.  
See also [D06N 7/0036](#)

- D06N 7/0065 . . { characterised by the pile }

**WARNING**

Groups [D06N 7/0065](#), [D06N 7/0068](#) are not complete, pending reorganisation. See also [D06N 7/006](#)

- D06N 7/0068 . . { characterised by the primary backing or the fibrous top layer }
- D06N 7/0071 . . { characterised by their backing, e.g. pre-coat, back coating, secondary backing, cushion backing }
- D06N 7/0073 . . . { the back coating or pre-coat being applied as an aqueous dispersion or latex }
- D06N 7/0076 . . . { the back coating or pre-coat being a thermoplastic material applied by e.g. extrusion coating, powder coating or laminating a thermoplastic film }
- D06N 7/0078 . . . { the back coating or pre-coat being applied as a hot melt }
- D06N 7/0081 . . . { with at least one extra fibrous layer at the backing, e.g. stabilizing fibrous layer, fibrous secondary backing }
- D06N 7/0084 . . . { with at least one layer obtained by sintering or bonding granules together }
- D06N 7/0086 . . . { characterised by the cushion backing, e.g. foamed polyurethane }
- D06N 7/0089 . . { Underlays }
- D06N 7/0092 . { Non-continuous polymer coating on the fibrous substrate, e.g. plastic dots on fabrics }
- D06N 7/0094 . { Fibrous material being coated on one surface with at least one layer of an inorganic material and at least one layer of a macromolecular material }
- D06N 7/0097 . { Web coated with fibres, e.g. flocked }

**Guidance heading:**

**D06N 2201/00**      **Chemical constitution of the fibres, threads or yarns**

- D06N 2201/02 . Synthetic macromolecular fibres
- D06N 2201/0209 . . Elastomeric, elastic fibres, e.g. spandex, lycra
- D06N 2201/0218 . . Vinyl resin fibres
- D06N 2201/0227 . . . Aromatic vinyl resin, e.g. styrenic (co)polymers
- D06N 2201/0236 . . . Vinyl halide, e.g. PVC,PVDC,PVF,PVDF
- D06N 2201/0245 . . Acrylic resin fibres
- D06N 2201/0254 . . Polyolefin fibres
- D06N 2201/0263 . . Polyamide fibres
- D06N 2201/0272 . . . Aromatic polyamide fibres
- D06N 2201/0281 . . Polyurethane fibres
- D06N 2201/029 . . Fluoropolymer fibres
  
- D06N 2201/04 . Vegetal fibres
- D06N 2201/042 . . Cellulose fibres, e.g. cotton
- D06N 2201/045 . . . Lignocellulosic fibres, e.g. jute, sisal, hemp, flax, bamboo
- D06N 2201/047 . . . Wood fibres
  
- D06N 2201/06 . Animal fibres , e.g hair, wool, silk
  
- D06N 2201/08 . Inorganic fibres
- D06N 2201/082 . . Glass fibres
- D06N 2201/085 . . Metal fibres
- D06N 2201/087 . . Carbon fibres
  
- D06N 2201/10 . Conjugate fibres , e.g. core-sheath, side-by-side
  
- D06N 2201/12 . Fibres being in the form of a tape, strip or ribbon

**Guidance heading:** <NO TITLE>

#### **D06N 2203/00      Macromolecular materials of the coating layers**

- D06N 2203/02 . Natural macromolecular compounds or derivatives thereof
- D06N 2203/022 . . Natural rubber
- D06N 2203/024 . . Polysaccharides or derivatives thereof
- D06N 2203/026 . . . Cellulose or derivatives thereof
- D06N 2203/028 . . . Starch or derivatives thereof
  
- D06N 2203/04 . Macromolecular compounds obtained by reactions only involving carbon-to-carbon unsaturated bonds
- D06N 2203/041 . . Polyacrylic
- D06N 2203/042 . . Polyolefin (co)polymers
- D06N 2203/044 . . Fluoropolymers
- D06N 2203/045 . . Vinyl (co)polymers

D06N 2203/047	...	Arromatic vinyl (co)polymers, e.g. styrene
D06N 2203/048	...	Polyvinylchloride (co)polymers
D06N 2203/06	.	Macromolecular compounds obtained otherwise than by reactions only involving carbon-to-carbon unsaturated bonds
D06N 2203/061	..	Polyesters
D06N 2203/063	..	Polycarbonates
D06N 2203/065	..	Polyamides
D06N 2203/066	..	Silicon polymers
D06N 2203/068	..	Polyurethanes
D06N 2203/08	.	Bituminous material, e.g. asphalt, tar, bitumen
<b>D06N 2205/00</b>		<b>Condition, form or state of the materials</b>
D06N 2205/02	.	Dispersion
D06N 2205/023	..	Emulsion, aqueous dispersion, latex
D06N 2205/026	..	Plastisol
D06N 2205/04	.	Foam
D06N 2205/045	..	Froth
D06N 2205/06	.	Melt
D06N 2205/08	.	Microballoons, microcapsules
D06N 2205/10	.	Particulate form, e.g. powder, granule
D06N 2205/103	..	Nanoparticles
D06N 2205/106	..	Scrap or recycled particles
D06N 2205/12	.	Platelets, flakes
D06N 2205/14	.	Fibrous additives or fillers
D06N 2205/16	.	Solution
D06N 2205/18	.	Scraps or recycled materials ( <a href="#">D06N 2205/106</a> takes precedence)
D06N 2205/20	.	Cured materials e.g. vulcanised, cross-linked
D06N 2205/22	.	Partially cured
D06N 2205/24	.	Coagulated materials
D06N 2205/243	..	by heating, steam
D06N 2205/246	..	by extracting the solvent
<b>D06N 2207/00</b>		<b>Treatments by energy or chemical effects</b>

- D06N 2207/02 . using vibration
- D06N 2207/04 . using steam ([D06N 2205/243](#) takes precedence)
- D06N 2207/06 . using liquids. e.g. water
- D06N 2207/08 . using gas
- D06N 2207/10 . using flames
- D06N 2207/12 . by wave energy or particle radiation
- D06N 2207/123 . . using electromagnetic radiation, e.g. IR, UV, actinic light, laser, X-ray, gamma-ray, micro-wave, radio frequency
- D06N 2207/126 . . using particle radiation, e.g. ion, electron, neutron
- D06N 2207/14 . Corona, ionisation, electrical discharge

#### **D06N 2209/00 Properties of the materials**

- D06N 2209/02 . having acoustical properties
- D06N 2209/025 . . Insulating, sound absorber
- D06N 2209/04 . having electrical or magnetic properties
- D06N 2209/041 . . Conductive
- D06N 2209/043 . . Insulating
- D06N 2209/045 . . Magnetic, paramagnetic
- D06N 2209/046 . . Anti-static
- D06N 2209/048 . . Electromagnetic interference shielding
- D06N 2209/06 . having thermal properties
- D06N 2209/062 . . Conductive
- D06N 2209/065 . . Insulating
- D06N 2209/067 . . Flame resistant, fire resistant
- D06N 2209/08 . having optical properties
- D06N 2209/0807 . . Coloured
- D06N 2209/0815 . . . on the layer surface, e.g. ink
- D06N 2209/0823 . . . within the layer by addition of a colorant, e.g. pigments, dyes
- D06N 2209/083 . . . Multi-coloured
- D06N 2209/0838 . . Bright, glossy, shiny surface
- D06N 2209/0846 . . Matt, dull surface
- D06N 2209/0853 . . Opaque
- D06N 2209/0861 . . Transparent
- D06N 2209/0869 . . Translucent
- D06N 2209/0876 . . Reflective



D06N 2209/0884	..	Refractive
D06N 2209/0892	..	Luminescent, fluorescent, phosphorescent
D06N 2209/10	.	having mechanical properties
D06N 2209/101	..	Vibration damping, energy absorption
D06N 2209/103	..	Resistant to mechanical forces e.g. shock, impact, puncture, flexion, shear, compression, tear
D06N 2209/105	..	Resistant to abrasion, scratch
D06N 2209/106	..	Roughness, anti-slip, abrasiveness
D06N 2209/108	..	Slipping, anti-blocking, low friction
D06N 2209/12	.	Permeability or impermeability properties
D06N 2209/121	..	Permeability to gases, adsorption
D06N 2209/123	...	Breathable
D06N 2209/125	...	Non-permeable
D06N 2209/126	..	Permeability to liquids, absorption
D06N 2209/128	...	Non-permeable
D06N 2209/14	.	having chemical properties
D06N 2209/141	..	Hydrophilic
D06N 2209/142	..	Hydrophobic
D06N 2209/143	..	Inert, i.e. inert to chemical degradation, corrosion resistant
D06N 2209/145	..	Oleophobic
D06N 2209/146	..	Soilproof, soil repellent
D06N 2209/147	..	Stainproof, stain repellent
D06N 2209/148	..	Superabsorbing
D06N 2209/16	.	having other properties
D06N 2209/1607	..	Degradability
D06N 2209/1614	...	Biodegradable
D06N 2209/1621	...	Water-soluble, water-dispersible
D06N 2209/1628	..	Dimensional stability
D06N 2209/1635	..	Elasticity
D06N 2209/1642	..	Hardnes
D06N 2209/165	..	Odour absorbing, deodorizing ability
D06N 2209/1657	..	Printability
D06N 2209/1664	..	Releasability ( <a href="#">adhesive allowing removal of the whole carpet D06N 2213/066; releasability between at least two layers of a carpet, rug or synthetic lawn D06N 2213/068</a> )
D06N 2209/1671	..	Resistance to bacteria, mildew, mould, fungi
D06N 2209/1678	..	Resistive to light or to UV
D06N 2209/1685	..	Wear resistance
D06N 2209/1692	..	Weather resistance

**D06N 2211/00**      **Specially adapted uses**

D06N 2211/02	. Agriculture
D06N 2211/04	. Belts
D06N 2211/06	. Building materials
D06N 2211/063	.. Wall coverings
D06N 2211/066	.. Floor coverings
D06N 2211/08	. Cleaning articles ( <a href="#">personal care D06N 2211/24</a> )
D06N 2211/10	. Clothing
D06N 2211/103	.. Gloves
D06N 2211/106	.. Footwear
D06N 2211/12	. Decorative or sun protection articles
D06N 2211/122	.. Curtains
D06N 2211/125	.. Awnings, sunblinds
D06N 2211/127	.. Table cloth
D06N 2211/14	.. Furniture, upholstery
D06N 2211/16	.. Geotextiles
D06N 2211/18	.. Medical, e.g. bandage, prostheses, catheter ( <a href="#">medical patches D06N 2211/22</a> ; <a href="#">medical packaging D06N 2211/20</a> )
D06N 2211/20	.. Packaging
D06N 2211/22	.. Patches, e.g. medical patches, repair patches
D06N 2211/24	.. Personal care
D06N 2211/26	.. Vehicles, transportation
D06N 2211/261	... Body finishing, e.g. headliners
D06N 2211/262	... Constructional panels
D06N 2211/263	... Cars
D06N 2211/265	... Trains
D06N 2211/266	... Ships
D06N 2211/267	... Aircraft
D06N 2211/268	... Airbags
D06N 2211/28	.. Artificial leather
D06N 2211/30	. Filters
<b>D06N 2213/00</b>	<b>Others characteristics</b>
D06N 2213/02	. All layers being of the same kind of material, e.g. all layers being of polyolefins, all layers being of polyesters
D06N 2213/03	. Fibrous web coated on one side with at least two layers of the same polymer type, e.g. two coatings of polyolefin
D06N 2213/04	. Perforated layer

- D06N 2213/045 . . the coating layer does not completely close the openings between the fibres]
- D06N 2213/06 . Characteristics of the backing in carpets, rugs, synthetic lawn
- D06N 2213/061 . . Non-continuous back coating or pre-coat
- D06N 2213/063 . . Porous back coating or pre-coat
- D06N 2213/065 . . Two back coatings one next to the other
- D06N 2213/066 . . having an adhesive on the undersurface to allow removal of the whole carpet, rug or synthetic lawn from the floor, e.g. pressure sensitive adhesive
- D06N 2213/068 . . Releasability between at least two of the layers