

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)

Definition statement

This subclass/group covers:

Fibrous webs coated with at least one layer of a macromolecular material to impart specific properties and/or to be used in a particular application, such as wall or floor coverings, e.g. linoleum, PVC floor coverings, carpets or artificial turf, artificial leather, building materials including roofing membranes or underlays, wearing apparel, airbags, footwear, gloves, upholstery, tents, canopy, tarpaulins.

Wallpaper comprising a textile layer.

Methods or apparatus for making these products.

Relationship between large subject matter areas

The subclass has a very large number of related technical areas, e.g.:

"Material fields per se" such as polymer materials or compositions and kind of fibrous web.

Fields covering (per se) manufacturing methods/apparatus e.g. [B05D](#), [B29C](#), [B32B 37/00-B32B 43/00](#), [D06M 23/00](#), [D06B](#) or [D06C](#).

"Application fields" such as wall, floor or roof coverings, airbags, building materials, artificial turf, wearing apparel, footwear or gloves.

"Overlapping fields" like polymeric treatment of fibrous webs ([D06M 15/00](#)), carpet underlays ([A47G 27/0468](#)) or multilayer products in case of extrusion coating ([B32B](#)).

If the coated fibrous webs are specially adapted for particular applications having own subclasses or if a very specific fibrous web or polymer are used classification is also made in the pertinent subclasses listed in section "Informative references".

A laminate containing a polymeric coated layer, wherein the core of the invention does not lay in the coated textile, is only classified in [B32B](#) and not in [D06N](#).

References relevant to classification in this subclass

This subclass/group does not cover:

Laminates in general (exception: product obtained by extrusion coating)	B32B
Fibrous web coated only with nanomaterials	B82Y 30/00 , B82Y 40/00
Treatment of glass fibres or filaments	C03C 25/00
Treatment of ceramic fibres or natural or artificial stone fibres	C04B 41/00
Fibre reinforced materials	C08J 5/04 , B29C 70/00
Adhesive tapes	C09J 7/00
Mechanical aspects of the treatment of textiles and apparatus used therefore	D06B-D06C
Treatment of fibrous webs with only inorganic and/or organic non-macromolecular materials	D06M
only impregnation of fibrous webs	D06M
Treatment of fibres, threads or yarns with polymeric materials	D06M 14/00 , D06M 15/00 , D06M 17/00 , D06M 23/00
coated webs which retain the character of paper or cardboard	D21
Coated paper	D21H

Informative references

Attention is drawn to the following places, which may be of interest for search:

Laying carpeting or carpet tiles; Carpet underlays	A47G 27/04
Wearing apparel	A41D

Headwear	A42B
Footwear	A43B
Travelling bags, suitcases	A45C
Chairs, sofas, beds	A47C
Table cloth	A47G
Curtains	A47H
Chemical aspects of bandages, dressings, absorbent pads, or surgical articles	A61L 15/00
Apparatus for applying liquids or other fluent materials to surfaces	B05C
Processes for applying liquids or other fluent materials to surfaces	B05D
Shaping or joining of plastics	B29C
Multilayer products	B32B
Floor mats for vehicles	B60N 3/04
Airbags	B60R 21/235
Additives in macromolecular compositions	C08K
Compositions of macromolecular compounds	C08L
Coating compositions	C09D
Yarns or threads	D02G
Woven materials	D03D
Knitted materials	D04B
Non-woven materials	D04H

Tufted materials	D05C 17/00
Polymeric treatment of fabrics	D06M 14/00 , D06M 15/00 , D06M 23/00
Dyeing or printing textile	D06P
Artificial turf	E01C 13/08
Insulation or other protection of buildings	E04B 1/62
Roof coverings or underlays	E04D 5/00 , E04D 12/002
Wall coverings	E04F 13/00
Floor coverings	E04F 15/00
Tents or canopies	E04H 15/00
Screening or protective devices for wall or similar openings	E06B 9/00

Special rules of classification within this subclass

The "common rule" applies in each of the subgroups.

In case of combination of chemical and mechanical aspects, several classification symbols covering all these aspects are given.

Within each of the subgroups [D06N 3/0056](#) and [D06N 3/02](#) to [D06N 3/16](#), the polymer composition comprising different polymer(s) and additive(s) is classified at least according to each of the essential components.

Coatings with mixtures of polymers covered by two or more of subgroups [D06N 3/02](#) to [D06N 3/16](#) are classified in each appropriate subgroup. However, a blend of polyurethane or PVC with another polymer is only classified in [D06N 3/142](#) or [D06N 3/065](#), respectively.

When the coating composition is too generally defined, too many possibilities are disclosed or the product is used for other application than the ones defined in subgroups [D06N 1/00](#), [D06N 3/00](#), [D06N 5/00](#), [D06N 7/0002](#), [D06N 7/0005](#) or [D06N 7/0063](#), then subclasses corresponding to the compounds used in the examples are allocated. In absence of examples, the pertinent subgroups [D06N 7/00](#) or [D06N 7/0092](#) to [D06N 7/0097](#) are given.

When the coating composition comprises a material not specified in the subgroups [D06N 3/02](#) to [D06N 3/16](#), e.g. starch, chitosan, classification is given in [D06N 7/00](#) and [D06N 2203/00](#).

In this group the use of Indexing Codes is mandatory to classify technical information belonging to the core of the invention as long as said technical information can not be classified in any of the subgroups and optional for the classification of additional information.

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

Fibrous web	Woven, non-woven, knitted or tufted fabric.
Coated with a macromolecular material	Macromolecular material or polymer composition applied by e.g. brushing, flowing, sprinkling, spraying, doctor blading, casting or extruding a solution, dispersion, melt or paste.

D06N 1/00

Linoleum [N: e.g. linoxyn, polymerised or oxidised resin]

Definition statement

This subclass/group covers:

Floor coverings obtained by applying a linoleum composition onto a fibrous web.

D06N 3/00

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

Definition statement

This subclass/group covers:

Artificial leather.

Any polymer coated fibrous web, e.g. airbags, or wall or floor coverings, characterised by:

- the fibrous substrate,
- compounding ingredients of the macromolecular coating,
- polymer material,
- a foamed, cellular or perforated polymeric coating,
- mechanical or physical treatments taking place before, during or after application of the coating, or
- application technique of the polymeric coating.

References relevant to classification in this group

This subclass/group does not cover:

Floor coverings comprising a fibrous substrate coated on the top surface with at least one layer of polymer characterised only by their relief structure, colour effects or physical or chemical aspects of the layers	D06N 7/0007 , D06N 7/0028 , D06N 7/0039
Floor coverings comprising a fibrous top layer being coated at the back with at least one polymer layer, e.g. carpets, artificial turf, mats, rugs	D06N 7/0063
Carpet underlays	D06N 7/0089

D06N 3/042

[N: Acrylic polymers ([D06N 3/045](#) takes precedence)]

Definition statement

This subclass/group covers:

Coating compositions comprising polymers made exclusively from acrylic monomers.

D06N 3/045

[N: with polyolefin or polystyrene (co-)polymers]

Definition statement

This subclass/group covers:

Coating compositions comprising homo- or copolymers of olefins or styrenic monomers, including olefin / acrylic copolymers.

D06N 3/18

with two layers of different macromolecular materials ([D06N 3/08](#) takes precedence); [N: (with two layers of the same kind of macromolecular material [D06N 2213/03](#))]

Definition statement

This subclass/group covers:

Fibrous webs coated with two layers of different macromolecular materials present on the same or on different surfaces or the fibrous web.

References relevant to classification in this group

This subclass/group does not cover:

With a finishing layer consisting of polyacrylates polyamides or polyurethanes	D06N 3/08
--------------------------------------------------------------------------------	---------------------------

Special rules of classification within this group

The macromolecular materials of the different layers are additionally classified in the subgroups [D06N 3/02](#) to [D06N 3/16](#) or [D06N 2203/00](#). If other additives of any of the compositions are important a classification should also be given in the pertinent subgroups [D06N 3/0056](#).

D06N 5/00

[N: 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](#))]

Definition statement

This subclass/group covers:

Roofing materials or products that are useful as roofing material (specified in the claims or description) comprising a fibrous web coated with at least one layer of a macromolecular material, i.e. thermoplastic, elastomer, bitumen or asphalt.

In [D06N5/006](#) the fastening means should be part of the structure of the

material, such as a strip of a self-adhesive at the edge of the roofing membrane or a meltable strip or layer allowing welding of the roofing membrane to a support or to another membrane.

Fibrous web coated with a macromolecular material to be used in other applications	D06N 3/00 , D06N 7/00
------------------------------------------------------------------------------------	-------------------------------------------------------

Informative references

Attention is drawn to the following places, which may be of interest for search:

Roof coverings	E04D 5/00
Roofing underlays	E04D 12/002

Special rules of classification within this group

Other essential aspects should be classified in [D06N 3/00](#)

D06N 7/00

Flexible sheet materials not otherwise provided for, e.g. textile threads, filaments, yarns or tow, glued on macromolecular material, [N: e.g. fibrous top layer with resin backing, plastic naps or dots on fabrics]

Definition statement

This subclass/group covers:

Coated fibrous webs:

- not characterised by any particular material,
- characterised by a coating composition comprising a macromolecular, material not specified in the subgroups [D06N 3/02](#) to [D06N 3/16](#), e.g. starch or chitosan,
- comprising a discontinuous coating, e.g. (double) dot coating, or
- having at least one layer of an inorganic material and at least one layer of a macromolecular material.

Wallpaper comprising a textile layer.

Floor coverings comprising a fibrous substrate coated with at least one layer

of a polymer on the top surface characterised by the relief structure, colour effects or the physical or chemical aspects of the layers.

Floor coverings comprising a fibrous top layer coated at the back with at least one polymer layer, e.g. carpets, rugs, synthetic turf.

Webs coated with fibres, e.g. flocked materials.

References relevant to classification in this group

This subclass/group does not cover:

Floor coverings comprising a fibrous substrate coated on the top surface with at least one layer of polymer characterised only by the fibrous substrate, compounding ingredients of the macromolecular coating, polymer material, a foamed, cellular or perforated coating, mechanical or physical treatments or application technique.	D06N 3/00
-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	---------------------------

Special rules of classification within this group

Floor coverings characterised by features covered by groups [D06N 3/00](#) and **D06N7/0005** are classified in both groups.

Coated textiles with a non-continuous coating (**D06N7/0092**) or an additional metallic coating (**D06N7/0094**) are additionally classified in [D06N 3/00](#) if the kind of polymer, additive(s), textile, etc. are important to the invention.

D06N 7/0065

[N: characterised by the pile]

Definition statement

This subclass/group covers:

Carpets, rugs, mats or artificial lawn characterised by the pile yarns, e.g. differently dyed, of different length, of at least two different materials.

Carpets, rugs, mats or artificial lawn, wherein the pile yarns are fused, soften or melted at the back of the primary backing should be classified in this subgroup, independently if a back coating is also present or not.

Special rules of classification within this group

If the material of the pile yarn is important the pertinent Indexing Code in [D06N 2201/00](#) should also be given.

D06N 7/0071

[N: characterised by their backing, e.g. pre-coat, back coating, secondary backing, cushion backing]

Definition statement

This subclass/group covers:

Carpets, rugs, mats or artificial lawn characterised by their backing, e.g. pre-coat, back coating, stabilizing layers, secondary backing, cushion backing.

Special rules of classification within this group

If the material of the components of the backing is important classification should also be given in the pertinent Indexing Codes.

D06N 7/0076

[N: the back coating or pre-coat being a thermoplastic material applied by e.g. extrusion coating, powder coating or laminating a thermoplastic film]

References relevant to classification in this subclass/group

This subclass/group does not cover:

Carpets, rugs, mats or artificial lawn, wherein the pre-coat or the back coating is made from a hot melt composition comprising at least a thermoplastic polymer and a tackifying resin.	D06N 7/0078
------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------	-----------------------------

Special rules of classification within this group

Sometimes the term "hot melt" is used to describe melt thermoplastics not containing tackifying resins. In this case classification is given in this group and not in [D06N 7/0078](#).

When it is not clear whether the term "hot melt" means thermoplastic comprising or not a tackifying resin, then it is recommended to classify it in both this group and [D06N 7/0078](#).

D06N 7/0078

[N: the back coating or pre-coat being applied as a hot melt]

Special rules of classification within this group

When it is not clear whether the term "hot melt" means thermoplastic comprising or not a tackifying resin, then it is recommended to classify it in both this group and [D06N 7/0076](#).

Glossary of terms

In this subclass/group, the following terms (or expressions) are used with the meaning indicated:

Hot melt adhesive, coating or composition	Adhesive, coating or composition comprising a thermoplastic polymer and a tackifying resin, e.g. rosin esters, hydrocarbon resins, polyterpene resin. Other additives, such as fillers or a wax can also be present.
-------------------------------------------	----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------