



New connection on: : 03-11-2018 : 02:00:06 - Last disconnection on: : 02-11-2018 : 17:49:23

V 4.0.0.44358(LP,U,linux) (Rev:43856 2017-04-27 09:03:29 +0200#(D201802)) (RPM D201802)

Welcome to EPOQUE Rebuild under the Production Environment

[EPODOC: SS 5] (MULTILAYER or laminate) AND CRYSTALLINITY

Results in EPODOC 759

[SS 6] 5 and (ORIENTED POLYETHYLENE)

Results in EPODOC 0

EPODOC: term 'ORIENTED POLYETHYLENE' not found in index 'BI'. WARNING(1)

[SS 7] ORIENTED and POLYETHYLENE

Results in EPODOC 5.248

[SS 8] 5 and 7

Results in EPODOC 28

[SS 9] PD<20141212

Results in EPODOC 93.537.527

[SS 10] 8 and 9

Results in EPODOC 24

[SS 11] 10 and pack+

Results in EPODOC 6

[SS 12] ..li ss 11



1/6 © EPODOC / EPO

PN - [KR20010013586](#) A 20010226

PR - US19970873133 19970610; WO1998US10348 19980521

AP - KR19997011593 19980521

DT - I

CCI - [B32B27/32](#)

CUI - [B32B27/08](#) ; [B32B27/16](#) ; [B32B27/18](#) ; [B32B38/0008](#)

CUA - [B32B2307/518](#) ; [B32B2307/736](#) ; [B32B2309/105](#) ; [B32B2310/14](#)

PA - EXXONMOBIL OIL CORP [US]

TI - UNIAXIALLY SHRINKABLE BIAXIALLY **ORIENTED** POLYPROPYLENE FILM AND METHOD FOR USE AS TOBACCO **PACK** OVERWRAP

AB - A uniaxially heat-shrinkable, biaxially **oriented**, **multilayer** film for use as a tobacco **pack** or carton overwrap having a polypropylene- containing core layer comprising at least 70 wt.% of said **multilayer** film and at least one polyolefin-containing skin layer adjacent said core layer is prepared by biaxially orienting a coextrudate and thereafter orienting said coextrudate by stretching 10 to 40 % in the machine direction. The core layer contains isotactic polypropylene and a modifier which reduces the **crystallinity** of the polypropylene-containing core. Such modifiers can be selected from the group consisting of atactic polypropylene, syndiotactic polypropylene, ethylene-propylene copolymer, propylene-butene-1 copolymer, ethylene-propylene-butene terpolymer, and linear low density **polyethylene**. The skin layer can be selected from the group consisting of polypropylene, ethylene-propylene copolymer, **polyethylene**, and ethylene-propylene-butene- 1 terpolymer and contains silicone oil.

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PN - [US6534189](#) B1 20030318

PR - US20000887657 20000109; US19970873133 19970610; US19950427785 19950425; US19940276124 19940715; US19970806428 19970226

AP - US20000887657 20000109

DT - *; Rep

CT - || STSE (B1)
[US5302442](#) A 19940412 [] (O'BRIEN JEFFREY J [US], et al);
[US5691043](#) A 19971125 [] (KELLER LAJOS E [US], et al)

CCI - [B32B27/32](#) ; [B29C55/023](#) ; [B29C61/003](#)

CCA - [B29K2023/12](#) ; [Y10S428/91](#) ; [Y10T428/31913](#) ; [Y10T428/31663](#)

PA - EXXONMOBIL OIL CORP [US]

TI - Uniaxially shrinkable biaxially **oriented** polypropylene film and method for use as tobacco **pack** overwrap

AB - A uniaxially heat-shrinkable, biaxially **oriented**, **multilayer** film for use as a tobacco **pack** or carton overwrap having a polypropylene-containing core layer comprising at least 70 wt % of said **multilayer** film and at least one polyolefin-containing skin layer adjacent said core layer is prepared by biaxially orienting a coextrudate and thereafter orienting said coextrudate by stretching 10 to 45% in the machine direction. The core layer contains isotactic polypropylene and a modifier which reduces the **crystallinity** of the polypropylene-containing core. Such modifiers can be selected from the group consisting of atactic polypropylene, syndiotactic

polypropylene, ethylene-propylene copolymer, propylene-butene-1 copolymer, ethylene-propylene-butene terpolymer, **polyethylene** and linear low density **polyethylene**. The skin layer can be selected from the group consisting of polypropylene, ethylene-propylene copolymer, **polyethylene**, and ethylene-propylene-butene-1 terpolymer and contains silicone oil.

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- PN - [WO9856662](#) A1 19981217
- PR - US19970873133 19970610
- AP - WO1998US10348 19980521
- DT - *; Rep
- CT - |US| ISR (A1)
[US5292561](#) A 19940308 [X] (PEIFFER HERBERT [DE], et al);
[US5691043](#) A 19971125 [XP] (KELLER LAJOS E [US], et al);
[US5264277](#) A 19931123 [A] (FROGNET JEAN-PIERRE [BE], et al)
- CCI - [B32B27/32](#)
- CUI - [B32B27/08](#) ; [B32B27/16](#) ; [B32B27/18](#) ; [B32B38/0008](#)
- CUA - [B32B2307/518](#) ; [B32B2307/736](#) ; [B32B2309/105](#) ; [B32B2310/14](#)
- PA - MOBIL OIL CORP [US]
- TI - UNIAXIALLY SHRINKABLE BIAXIALLY **ORIENTED** POLYPROPYLENE FILM AND METHOD FOR USE AS TOBACCO **PACK** OVERWRAP
- AB - A uniaxially heat-shrinkable, biaxially **oriented**, **multilayer** film for use as a tobacco **pack** or carton overwrap having a polypropylene-containing core layer comprising at least 70 wt.% of said **multilayer** film and at least one polyolefin-containing skin layer adjacent said core layer is prepared by biaxially orienting a coextrudate and thereafter orienting said coextrudate by stretching 10 to 40 % in the machine direction. The core layer contains isotactic polypropylene and a modifier which reduces the **crystallinity** of the polypropylene-containing core. Such modifiers can be selected from the group consisting of atactic polypropylene, syndiotactic polypropylene, ethylene-propylene copolymer, propylene-butene-1 copolymer, ethylene-propylene-butene terpolymer, and linear low density **polyethylene**. The skin layer can be selected from the group consisting of polypropylene, ethylene-propylene copolymer, **polyethylene**, and ethylene-propylene-butene-1 terpolymer and contains silicone oil.

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- PN - [GB1441178](#) A 19760630
- PR - US19720315561 19721215
- AP - GB19730058024 19731214
- DT - **
- CCI - [B32B27/00](#)
- CUI - [B32B5/18](#) ; [B32B27/065](#) ; [B32B27/304](#) ; [B32B27/308](#) ; [B32B27/32](#)
- CUA - [B32B2266/025](#) ; [B32B2307/516](#) ; [B32B2307/518](#) ; [B32B2307/744](#) ; [B32B2323/043](#) ; [B32B2323/10](#) ; [B32B2327/00](#)

PA - DU PONT

TI - LAMINATED FILM STRUCTURE

AB - 1441178 Laminates E I DU PONT DE NEMOURS & CO 14 Dec 1973 [15 Dec 1972]
 58024/73 Heading B5N [Also in Division B2] A laminated film structure suitable for use in **packaging** comprises (A) a base layer of a biaxially stretched thermoplastic film of a cellular polymeric matrix prepared from a polymer having a **crystallinity** of at least 60% by weight at room temperature and selected from homopolymers, copolymers and blends thereof of α -olefins having 2-10 carbon atoms, and having dispersed therein an inert filler having an average particle size of 0.3-8 microns in an amount of 26-50% by weight based on the weight of the polymer and inert filler, the filled polymer having (a) an elongation of at least 1000% at a temperature within the range of above the line drawing temperature and below the melting temperature of the polymer, (b) 30-70% voids, (c) an elongation at break at 22 C. of at least 8% in each direction of stretch, (d) 2-40 surface ruptures per square millimetre, (e) a density of 0.93-0.97 g./cc. and (f) an oxygen permeability of 0.90-10,000,000 cc./100 sq. in./ 24 hrs. /atmosphere/mil., and (B) a grease-proof layer, laminated to at least one side of the thermoplastic film base layer, the grease-proof layer being selected from (1) high density **polyethylene** of density 0.94-0.98 g./cc. at 25 C., (2) polypropylene having a **crystallinity** of at least 60% by weight and (3) ethylene-based ionomeric resin prepared by copolymerizing a mixture of ethylene and unsaturated monocarboxylic acid in the presence of a free radical polymerization initiator and bringing the copolymer into contact with an ionizable compound to effect crosslinking. The film **laminate** may also include at least one heatsealable layer suitably applied by coating and comprising, by weight (1) 60-70 parts ethylenevinyl acetate copolymer, 20-25 parts of a wax having a melting point of at least 60 C., 5-15 parts sodium-ammonium roteinates, 0.5-5 parts ammonium proteinate, 1-10 parts polymerized rosin ester and 0.5-5 parts metal stearate, (2) 25-99% petroleum wax and 75-1% of a terpolymer of ethylene, a monomeric acid and a vinyl ester, alkyl acrylate or alkyl methacrylate, (3) an ethylene-based ionomeric resin or (4) a low density **polyethylene** of density 0.91-0.93 g./cc. at 25 C. The film **laminate** may also be coated on one or both sides with a layer of vinylidene chloride copolymer or layer of crystalline polypropylene containing a pigment. Grease-proof layer (B) may be uniaxially or biaxially **oriented**. The filler in base layer (A) may be inorganic, e.g. silica, calcium carbonate, diatomaceous earth, titanium dioxide or clay or organic, e.g. polyesters or polyamides. Layers (A) and (B) may be bonded together with the use of an adhesive, electrical discharge or flame treatment or after extrusion.

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PN - [CA2289631](#) A1 19981217

PR - US19970873133 19970610; WO1998US10348 19980521

AP - CA19982289631 19980521

DT - I

CCI - [B32B27/32](#)

CUI - [B32B27/08](#) ; [B32B27/16](#) ; [B32B27/18](#) ; [B32B38/0008](#)

CUA - [B32B2307/518](#) ; [B32B2307/736](#) ; [B32B2309/105](#) ; [B32B2310/14](#)

PA - MOBIL OIL CORP [US]

- TI - UNIAXIALLY SHRINKABLE BIAXIALLY **ORIENTED** POLYPROPYLENE FILM AND METHOD FOR USE AS TOBACCO **PACK** OVERWRAP
- AB - A uniaxially heat-shrinkable, biaxially **oriented**, **multilayer** film for use as a tobacco **pack** or carton overwrap having a polypropylene-containing core layer comprising at least 70 wt.% of said **multilayer** film and at least one polyolefin-containing skin layer adjacent said core layer is prepared by biaxially orienting a coextrudate and thereafter orienting said coextrudate by stretching 10 to 40 % in the machine direction. The core layer contains isotactic polypropylene and a modifier which reduces the **crystallinity** of the polypropylene-containing core. Such modifiers can be selected from the group consisting of atactic polypropylene, syndiotactic polypropylene, ethylenepropylene copolymer, propylene-butene-1 copolymer, ethylene-propylene-butene terpolymer, and linear low density **polyethylene**. The skin layer can be selected from the group consisting of polypropylene, ethylene-propylene copolymer, **polyethylene**, and ethylene-propylene-butene-1 terpolymer and contains silicone oil.

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- PN - [CA1221610](#) A 19870512
- PR - GB19820023259 19820812
- AP - CA19830433854 19830804
- DT - I
- PA - DU PONT CANADA
- TI - PROCESS FOR FORMING A SEALANT WEB-PVDC-BASE FILM **LAMINATE**
- AB - A film **laminated** comprising a base film and a first sealant web with a coating of polyvinylidene chloride (PVDC) sandwiched therebetween is disclosed. The first sealant web is selected from the group consisting of a) film made from a copolymer of ethylene and vinyl acetate, and b) a film made from a blend of i) a copolymer of ethylene and vinyl acetate with ii) a homopolymer of ethylene, or a copolymer of ethylene and one or more C4 to C10 α -olefins, said homopolymer or copolymer having a density of from about 0.915 to about 0.955 g/cm³, or blends of said homopolymer and copolymer. The base film is selected from the group consisting of unmetallized or metallized **oriented** nylon film, **oriented** polyester film, **oriented** polypropylene film, cast nylon film, **polyethylene** film and a second sealant web, said second sealant web being selected from the same group as said first sealant web and having a slip coefficient of less than about 0.4. The PVDC coating consists of at least one layer, the layers being characterized by failing a Solvent Haze Test, and preferably having a **crystallinity** index of less than 1.15 if dried and allowed to stand for 30 days at 20.degree.C and, if the base film is selected from nylon film, polyester film or polypropylene film, the layer in contact with the base film being further characterized by having a **crystallinity** index of from 1.12 to 1.25 if dried and allowed to stand for 5 days at 40.degree.C. If the base film is metal coated, then the PVDC is in direct contact with the metal. A process for forming the **laminated** is also disclosed. The process comprises bringing the base film and the first sealant web together between a nip roll and a hot roll, said PVDC coating having been applied to at least the base film or the first sealant web, with the proviso that if the first or second sealant web is in contact with the hot roll then said web which contacts the hot roll has a slip coefficient of less

than about 0.4. The laminates may be used for **packaging** comestibles e.g. bacon, wieners and cheese. DC-0160A

[SS 12]