

Search history

Search IC=(B32B27/08 or B32B 7/12) (Results 37658)

1:

Search AP=(PCT/EP2016/068204) (Results 1)

2:

Search [SP]: 1. a deep-drawable and heat-shrinkable multi-layer film made up of at least nine layers, said at least nine layers, from outward to inward, having the following respective compositions: (1) 60-40 vol percent polyamide (pa), 40-60 vol percent amorphous polyamide (apa) (2) 100 vol percent adhesion-promoting agent(3) 100 vol percent partially neutralised ethylene (meth)acrylic acid copolymer (ionomer)(4) 100 vol percent adhesion-promoting agent(5) 60-40 vol percent polyamide (pa), 40-60 vol percent amorphous polyamide (apa)(6) 100 vol percent ethylene vinyl alcohol copolymer (evoh)(7) 60-40 vol percent polyamide (pa), 40-60 vol percent amorphous polyamide (apa)(8) 100 vol percent adhesion-promoting agent(9) 70-40 vol percent low density polyethylene (ldpe), 30-60 vol percent linear low-density polyethylene (lldpe), wherein a thickness of the ionomer layer (3) is greater than a sum of the pa/apa blend layers (5) and (7), and wherein each of the adhesion-promoting layers (4) and (8) account for at least 5 percent of a total thickness of the multi-layer film.2. the deep-drawable and heat-shrinkable multi-layer film of claim 1, wherein the thicknesses of the layers (1) to (9) in relation to the total thickness of the multi-layer film present the following values:layer(1)(2)(3)(4)(5)(6)(7)(8)(9)thickness2-54-619-275-75-108-105-105-730-40[percent]3. the deep-drawable and heat-shrinkable multi-layer film of claim 1, said multi-layer film being biaxially stretched and thermofixed in a way that at a residence time of the multi-layer film of 5 seconds in a water bath at 90 degrees centigrade a shrinkage s of the multi-layer film both in a machine direction (md) and in a transverse direction (td) is equivalent to 10 percent less than or equal to s less than or equal to 20 percent.4. the deep-drawable and heat-shrinkable multi-layer film of claim 1, wherein the adhesion-promoting agent is a maleic anhydride-grafted ldpe.5. the deep-drawable and heat-shrinkable multi-layer film of claim 1, wherein the amorphous polyamide is a polyamide 6i/6t (polyamide obtained by polymerising hexamethylenediamine/isophthalic acid and hexamethylenediamine/terephthalic acid).6. the deep-drawable and heat-shrinkable multi-layer film of claim 1, wherein the polyamide used in the inner layers (5) and (7) is one of a pa 6, pa 66 and pa 6/66 and the polyamide used in the outer layer (1) is a pa 6/66.7. a process for manufacturing a deep-drawable and heat-shrinkable multi-layer film in a blown-film coextrusion process with a biaxial orientation and thermofixation in three bubbles, said process comprising the steps of: coextrusion of the multi-layer film according to claim 1 in a first bubble to form a tubular productcooling and flattening of the tubular product to a temperature below 30 degrees centigrade with water of a temperature of 10-20 degrees centigradeheating of the lay-flat tube in a water bath at a temperature of 85-98 degrees centigradeblowing-up and stretching of the reheated tube to a second bubble with a blowing ratio of 2.1 to 2.7 and a longitudinal stretch ratio of 2.1 to 2.6 andblowing-up of the tube to achieve a third bubble for thermofixation by reheating the film to achieve a surface temperature of 70-85 degrees centigrade and relaxation of the film in transverse direction by 15-30 percent and in longitudinal direction by 10 20 percent. (Results 7)

Search [SP]: 1. a metal-layer-free multilayer film with a weight per unit area of ≥ 33 g/m² and with an at least six-layer structure comprising: (a) a layer (a) composed of at least one thermoplastic olefin homo- or copolymer, as one of the external layers (b) a non-peelable adhesion-promoter layer (b) optionally having a plurality of sublayers (c) a layer (c) composed of at least one homo- and/or copolyamide and optionally having a plurality of sublayers (d) at least one internal gas-barrier layer (d) which adjoins the layer (c) and which optionally has a plurality of sublayers and which differs at least in the composition of the polymer component(s) from the layer (c) and a layer (e) (e) the layer (e) which adjoins the gas-barrier layer (d) and which optionally has a plurality of sublayers and is composed of at least one homo- and/or copolyamide and (i) a layer (i) composed of at least one homo- and/or copolyamide as one of the external layers wherein shrinkage of the multilayer film, determined as dimensional change in accordance with din 53377, is ≥ 10 percent at 90 degrees centigrade, both in machine direction and perpendicular to the machine direction, where the multilayer film comprises no metal foil and no vapor-deposition layer made of a metal or of a metal compound. 2. the metal-layer-free multilayer film as claimed in claim 1, with weight per unit area ≥ 33 g/m² and with an at least nine-layer layer structure comprising: (a) a layer (a) composed of at least one thermoplastic olefin homo- or copolymer, as one of the external layers (b) a non-peelable adhesion-promoter layer (b) optionally having a plurality of sublayers (c) a layer (c) composed of at least one homo- and/or copolyamide (d) at least one internal gas-barrier layer (d) which adjoins the layer (c) and which differs at least in the composition of the polymer component(s) from the layers (c) and (e) (e) a layer (e) which adjoins the gas-barrier layer (d) and which is composed of at least one homo- and/or copolyamide (f) an adhesion-promoter layer (f) optionally having a plurality of sublayers (g) at least one internal layer (g) composed of at least one thermoplastic olefin homo- or copolymer (h) a non-peelable adhesion-promoter layer (h) optionally having a plurality of sublayers (i) a layer (i) composed of at least one homo- and/or copolyamide as one of the external layers wherein shrinkage of the multilayer film, determined as dimensional change in accordance with din 53377, is ≥ 10 percent at 90 degrees centigrade, both in machine direction and perpendicular to the machine direction. 3. the multilayer film as claimed in claim 1, wherein the weight per unit area of the multilayer film is ≥ 31 g/m². 4. the multilayer film as claimed in claim 1, wherein the total thickness of the multilayer film is at most 30 micro m. 5. the multilayer film as claimed in claim 1, wherein the average density of the multilayer film is at most 1.1 g/cm³. 6. the multilayer film as claimed in claim 1, wherein the shrinkage of the multilayer film, determined as dimensional change in accordance with din 53377, is ≥ 7 percent, both in machine direction and perpendicular to the machine direction. 7. the multilayer film as claimed in claim 1, wherein the gas-barrier layer (d) is composed of at least one ethylene-vinyl alcohol copolymer, at least one polyvinyl alcohol, at least one polyvinylidene chloride, at least one homo- or copolyamide, or a mixture of at least two of these polymers. 8. the multilayer film as claimed in claim 1, wherein the puncture resistance of the multilayer film is at least 100 n, determined in accordance with din 53373. 9. the multilayer film as claimed in claim 1, which exhibits a helium transmission of at most 3000 cm³/(m²24 hbar), determined in accordance with din 53380-2 at 23 degrees centigrade and 0 percent humidity. 10. the multilayer film as claimed in claim 1, which exhibits an oxygen transmission of at most 8 cm³/(m²24 hbar), determined in accordance with din 53380-2 at 23 degrees centigrade and 0 percent humidity. 11. the multilayer film as claimed in claim 1, wherein the layer (a) is composed of at least one ethylene homo- or copolymer. 12. the multilayer film as claimed in claim 2, wherein the layer (g) is composed of at least one ethylene homo- or copolymer and/or of at least one propylene homo- or copolymer. 13. the multilayer film as claimed in claim 2, wherein the layers (a)-(i) are present in the stated sequence. 14. the multilayer film as claimed in claim 2, wherein the multilayer film also has at least one internal layer (j) and optionally at least one further internal layer (k), optionally respectively, being identical or different from one another, composed of at least one thermoplastic olefin homo- or copolymer or as a sublayer of the adhesion-promoter layer (b) having a plurality of sublayers and/or of the adhesion-promoter layer (f) having a plurality of sublayers. 15. the multilayer film as claimed in claim 1, wherein the multilayer film has an at least ten-layer layer structure. 16. the multilayer film as claimed in claim 1, wherein the multilayer film is sealable. 17. the multilayer film as claimed in claim 1, wherein the multilayer film has been printed and/or colored. 18. the multilayer film as claimed in claim 1, wherein the multilayer film is at least to some extent transparent and optionally colored. 19. the multilayer film as claimed in claim 1, wherein the multilayer film can be produced by the blown-film-coextrusion process. 20. a method of using a multilayer film as claimed in claim 1 for the production of a buoyancy body. 21. the method as claimed in claim 20, wherein the buoyancy body is at least a component of an aircraft, preferably of an airship, a hot-air balloon, a free balloon, a captive balloon, a pilot balloon, or a research balloon. 22. the method as claimed in claim 20, wherein the buoyancy body is a balloon. 23. the method as claimed in claim 20, wherein the buoyancy body is a flotation body which is optionally a component of a buoy, lifejacket, floating platform, or of a landing stage, or of a boat, or of a marine hovercraft. 24. a buoyancy body comprising a multilayer film as claimed in claim 1. 25. a balloon comprising the multilayer film as claimed in claim 1. 26. a balloon as claimed in claim 25, wherein the balloon is composed of at least two optionally identically designed segments, connected by a seal seam, of the multilayer film, and has a gas-supply duct, and also optionally has a gas-inlet and -outlet valve. 27. the balloon as claimed in claim 25, wherein the inflated balloon has any desired shape, and has optionally been printed with motifs. (Results 0)

Search pd<20150903 (Results 1000000)

5:

Search 5 and 3 (Results 6)

6:

Title: METAL LAYER-FREE MULTI-LAYER FILM WITH LOW SURFACE WEIGHT

Abstract: A metal layer-free multi-layer film with a surface weight of ?33 grams per square metre, shrinkage behavior of ? 10 percent at 90 degrees centigrade as described herein and a layer structure: a layer (a) composed of at least one thermoplastic olefin homopolymer or copolymer as an outer layer, an adhesive layer (b) inseparable under a cohesion peeling effect, a layer (c) of at least one homopolyamide and/or copolyamide, at least one internal gas barrier layer (d) adjoining layer (c) and differing from layers (c) and (e) in the composition of the polymer component(s), a layer (e) adjoining the gas barrier layer (d) and composed of at least one homopolyamide and/or copolyamide, and a layer (i) of at least one homopolyamide and/or copolyamide as an outer layer. Also disclosed is a method of using such a multi-layer film for the production of a buoyancy/lift body and a buoyancy/lift body made of such a multi-layer film.

Classifications:

International (IPC 8-9): A61K9/20 A63H A63H27/10 B32B B32B1/00 B32B27/08 B32B27/12 B32B27/16 B32B27/28 B32B27/30 B32B27/32 B32B27/34 B32B37/15 B32B7/00 B32B7/12 B63B5/00 B64B B64B1/00 B64B1/14 B64B1/40 B64B1/58 (Advanced/Invention);

A63H27/10 B64B1/58 (Advanced/Non-invention);

A63H B32B B64B (Subclass/Invention)

CPC: B32B1/00 B64B1/40 B32B27/08 A63H27/10 A63H2027/1025 B32B7/12 B32B27/306 B32B27/32 B32B27/34 B32B2250/05 B32B2250/24 B32B2270/00 B32B2307/304 B32B2307/31 B32B2307/4023 B32B2307/4026 B32B2307/412 B32B2307/51 B32B2307/518 B32B2307/581 B32B2307/718 B32B2307/72 B32B2307/7244 B32B2307/734 B32B2307/75 B32B2605/00 B64B1/14 B64B1/58 Y10T428/24802

US: 1/1 156/184 244/31 428/195.1 428/219

Family:

Publication number	Publication date	Application number	Application date
AU2012348905 AA	20130613	AU20120348905	20121204
AU2012348905 BB	20160114	AU20120348905	20121204
BR112014013377 A2	20170613	BR20141113377	20121204
BR112014013377 A8	20170613	BR20141113377	20121204
BR112014013377 A8	20170620	BR20141113377	20121204
CA2857068 AA	20140527	CA20122857068	20121204
CA2857068 C	20180529	CA20122857068	20121204
CL2014001478 A1	20141205	CL20140001478	20140605
CN104169082 A	20141126	CN201280060565	20121204
CN104169082 B	20170426	CN201280060565	20121204
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DE502012007085 D1	20160623	DE201250007085T	20121204
EP2788186 A1	20141015	EP20120824683	20121204
EP2788186 B1	20160511	EP20120824683	20121204
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HK1203173 A1	20170505	HK20150103637	20150414
HK1203173 A1	20151023	HK20150103637	20150414
HK1203173 B	20170505	HK20150103637	20150414
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MX2014006647 A1	20150416	MX20140006647	20121204
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PL2788186 T3	20170131	PL20120824683T	20121204
RS54995 B1	20161130	RS20160000621	20121204
US2014306056 AA	20141016	US20120363326	20121204
US9289966 BB	20160322	US20120363326	20121204
WO13083261 A1	20130613	WO2012EP04990	20121204

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DE201110120604 20111209
EP20120824683 20121204

DE201210006416 20120330

WO2012EP04990 20121204

Probable Assignee: MARIA SOELL HIGH TECHNOLOGY FILMS GMBH

Assignee(s): (std): MARIA SOELL HIGH TECH FILMS GMBH ; MARIA SOELL HIGH TECHNOLOGY FILMS GMBH

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BN BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PA PE PG PH PL PT QA RO RS RU RW SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MULTILAYERED TWO-DIMENSIONAL OR TUBULAR FOOD CASING OR FOOD FILM

Abstract: The present invention proposes for the first time a two-dimensional or tubular food casing or film with an at least seven-layered laminated structure, which has an EVOH layer as an oxygen barrier and in which the outer layer is formed by a high-temperature-resistant material such as PET, which apart from outstanding appearance-related properties also makes much higher further processing speeds (numbers of cycles) possible than previously known.

Classifications:

International (IPC 8-9): A22C13/00 B32B1/08 B32B21/04 B32B27/00 B32B27/06 B32B27/08 B32B27/12 B32B27/16 B32B27/28 B32B27/32 B32B27/34 B32B27/36 B32B7/00 B65D65/40 B65D71/08 B65D81/24 B65D85/50 (Advanced/Invention); A22C13/00 B32B1/00 B32B27/00 B32B27/08 B32B27/12 B32B27/16 B32B27/28 B32B27/32 B32B27/34 B32B27/36 B32B7/00 B65D65/00 B65D65/40 B65D71/06 (Core/Invention); A22C (Subclass/Invention)

International (IPC 1-7): A22C13/00

CPC: B32B27/36 A22C13/0013 A22C2013/004 A22C2013/0053 A22C2013/0059 A22C2013/0063 A22C2013/0083 B32B27/08 Y10T428/1324 Y10T428/1328 Y10T428/1341 Y10T428/31725 Y10T428/31786 Y10T428/31797 B32B27/32

European: A22C13/00D B32B27/08 B32B27/32 K22C13/00J

K22C13/00N K22C13/00Q K22C13/00R K22C13/00V

US: 220/660 428/34.8 428/34.800P 428/34.9 428/34.900S 428/35.4 428/35.400S 428/474.4 428/480 428/483

PatBase - NZ575251_A

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Family:

Publication number	Publication date	Application number	Application date
AU2007304547 AA	20080410	AU20070304547	20070706
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DK2283730 T3	20170109	DK20070015002T	20070706
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EP2076138 B1	20130306	EP20070785930	20070706
EP2283730 A2	20110216	EP20100015002	20070706
EP2283730 A3	20120912	EP20100015002	20070706
EP2283730 B1	20161109	EP20100015002	20070706
EP2283731 A2	20110216	EP20100015003	20070706
EP2283731 A3	20120912	EP20100015003	20070706
EP2283731 B1	20131113	EP20100015003	20070706
ES2401463 T3	20130419	ES20070785930T	20070706
ES2437669 T3	20140113	ES20100015003T	20070706
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IN00455MN2009 A	20090522	IN2009MN00455	20090304
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JP2010504885 T2	20100218	JP20090529544T	20070706
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NZ575251 A	20110331	NZ20070575251	20070706
PL2283730 T3	20170428	PL20100015002T	20070706
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PT2283731 T	20131125	PT20100015003T	20070706
RS52680 B	20130628	RS20130000079	20070706
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SI2283730 T1	20170228	SI20070031884	20070706
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WO08040404 A1	20080410	WO2007EP06025	20070706
ZA200901536 A	20100127	ZA20090001536	20090304
ZA200901536 A	20091230	ZA20090001536	20090304

Priority:

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DE200610062787	20060929	EP20070785930	20070706	EP20100015002	20070706
WO2007EP06025	20070706	JP20090529544	20070706	EP20100015003	20070706
RU20090108350	20090306	US20090311374	20090327	US20130060383	20131022

Probable Assignee: KUHNE ANLAGENBAU GMBH

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Inventor(s): (std): SCHIFFMANN JUERGEN ; SCHIFFMANN JURGEN ; JURGEN SCHIFFMANN ; SHIFMAN JURGEN ; JUERGEN SCHIFFMANN

Agent(s): CALLINANS; FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE CANADA SENCRL SRL LLP; KUHNEN AND WACKER PATENT U RECHTSANWALTSBUERO; KUHNEN AND WACKER PATENT U RECHTSANWALTSBUERO PARTG MBB; KUHNEN AND WACKER; Kuhnén & Wacker; ZUAZO ALEXANDER; MEHMET NAZIM AYDIN DERIS; WOLF GREENFIELD AND SACKS PC

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: HEAT SHRINKABLE MULTILAYER FILM OR TUBE THAT EXHIBITS SHRINK STABILITY AFTER ORIENTATION

Abstract: Heat shrinkable oriented multilayer films are disclosed that comprise a structural layer, a heat sealing layer and a gas barrier layer. The structural layer comprises a polymer selected from the group consisting of copolymers of ethylene and a C3 to C8, -ethylenically unsaturated carboxylic acid, ionomers of the copolymers, polyesters, and blends thereof. The heat sealing layer comprises a polymer selected from the group consisting of ethylene vinyl acetate copolymers, ethylene alkyl acrylate copolymers, ethylene alkyl methacrylate copolymers, polyethylene, and blends thereof. The barrier layer, which is positioned between the structural and heat sealing layer, comprises at least one ethylene vinyl alcohol copolymer that has from about 2 to about 8 mol percent 1,2-glycol structural units incorporated in the copolymer backbone chain. The films are particularly suitable for use in manufacture of shrinkbags.

Classifications:

International (IPC 8-9): B29C61/06 B32B1/08 B32B27/00 B32B27/08 B32B27/28 B32B27/30 B32B27/32 B32B27/36 B65B53/02 B65D30/02 B65D65/00 B65D65/40 B65D81/24 (Advanced/Invention); B29K29/00 B29L7/00 B29L9/00 (Advanced/Non-invention); B32B27/00 B32B27/08 B32B27/30 B32B27/32 B32B27/36 B65B53/00 B65D65/00 B65D65/40 (Core/Invention)

International (IPC 1-7): B32B27/00

CPC: B32B1/08 B32B27/20 B32B27/304 B32B27/306 B32B27/308 B32B27/32 B32B27/34 B32B27/36 B32B2270/00 B32B2307/518 B32B2307/71 B32B2307/7244 B32B2307/736 B32B2439/00 B32B27/08 Y10T428/1328 Y10T428/1341 Y10T428/1352 Y10T428/31797 Y10T428/31909 Y10T428/31928

European: B32B27/08

US: 428/34.9 428/34.900P 428/35.4 428/35.7 428/483 428/483S 428/515 428/515S 428/520

Family:

Publication number	Publication date	Application number	Application date
AT522348 E	20110915	AT20080796408T	20080722
AU2008279235 AA	20090129	AU20080279235	20080722
AU2008279235 BB	20121108	AU20080279235	20080722
BRPI0811357 A2	20141029	BR2008PI11357	20080722
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EP2167314 A1	20100331	EP20080796408	20080722
EP2167314 B1	20110831	EP20080796408	20080722
IN07481DN2009 A	20100702	IN2009DN07481	20091117
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US2009029081 AA	20090129	US20070880814	20070723
US8202590 BB	20120619	US20070880814	20070723
WO09015126 A1	20090129	WO2008US70728	20080722

Priority:

US20070880814 20070723 EP20080796408 20080722 WO2008US70728 20080722

Probable Assignee: E I DU PONT DE NEMOURS AND CO

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Assignee(s): E I DU PONT DE NEMOURS AND CO ; E I DU PONT DE NEMOURS AND COMPANY ; EI DU PONT DE NEMOURS AND CO ; EI DU PONT DE NEMOURS AND CO WILMINGTON

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: HEAT-SHRINKABLE MULTI-LAYER FILM FOR DEEP-DRAW FORMING, AND PROCESS FOR PRODUCTION THEREOF

Abstract: A polyamide resin-based heat-shrinkable multilayer film having excellent heat shrinkability and strength, as well as a high degree of deep A polyamide resin-based heat-shrinkable multilayer film having excellent heat shrinkability and strength, as well as a high degree of deep drawability as represented a shorter side-basis draw ratio (D/L) in excess of 0.6 between a maximum draw depth (D) and a shorter side length (L) of a mold opening is provided. The multilayer film is characterized by including a surface layer (a) comprising a thermoplastic resin, an intermediate layer (b) comprising a polyamide resin, and a surface layer (c) comprising a sealable resin, wherein (A) the intermediate layer (b) comprises a mixture of an aliphatic polyamide having a melting point of at least 180 degrees centigrade, and an amorphous aromatic polyamide comprising a polycondensation product of an aliphatic diamine with isophthalic acid and terephthalic acid as main acid components, including 25-45 weight percent of the amorphous aromatic polyamide, and has a thickness exceeding 25 percent and at most 50 percent of a total thickness of whole layers, and exhibiting: (B) tensile stresses at an elongation of 100 percent as measured in a tensile test at 100 degrees centigrade, including 3-22 N in at least one of a longitudinal direction (MD) and a transverse direction (TD) and an average of MD and TD values of 3-20N, and (C) a shrinkage in hot water at 90 degrees centigrade of 3 to 20 percent in each of MD and TD. The film is produced through a process of strictly controlling biaxial stretching ratios and heat-relaxation ratios.

Classifications:

International (IPC 8-9): B23B27/08 B29C55/16 B29C61/06

B32B27/08 B32B27/18 B32B27/32 B32B27/34 B32B27/36

B65D65/40 C08L77/00 C08L77/06 (Advanced/Invention);

B29K23/00 B29K67/00 B29K77/00 B29L7/00

B29L9/00 (Advanced/Non-invention)

CPC: B32B27/34 B29C55/16 B32B2307/31 B32B2307/54

B32B2307/736 B32B27/32 B32B27/36 B23B27/08 B32B27/08

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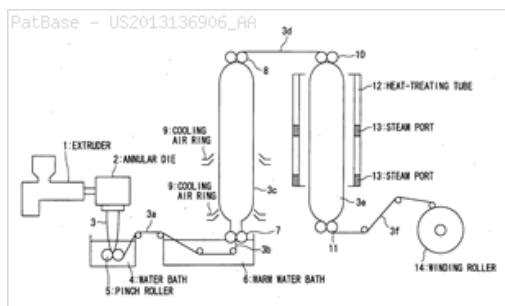
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European: B32B27/08 B32B27/32 B32B27/34 B32B27/36

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Family:

Publication number	Publication date	Application number	Application date
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AU2010340544 BB	20131205	AU20100340544	20101217
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CN102781666 B	20141022	CN201080065263	20101217
DE602010049209 D1	20180412	DE201060049209T	20101217
EP2521651 A1	20121114	EP20100805743	20101217
EP2521651 B1	20180314	EP20100805743	20101217
JP2013516338 A2	20130513	JP20120531130	20101217
JP2013516338 T2	20130513	JP20120531130T	20101217
JP5602861 B2	20141008	JP20120531130T	20101217
NZ601038 A	20131220	NZ20100601038	20101217
US2013136906 AA	20130530	US20100520888	20101217
US9352395 BB	20160531	US20100520888	20101217
WO11083707 A1	20110714	WO2010JP73472	20101217

Priority:

JP20100003188 20100108 EP20100805743 20101217 WO2010JP73472 20101217
JP20120531130 20101217

Probable Assignee: KUREHA CORP

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Designated states: AE AG AL AM AO AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CL CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PE PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN ST SV SY SZ TD TG TH TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: MULTILAYER SHEET- OR TUBE-TYPE FOOD CASING OR FOOD FILM

Abstract: The present invention for the first time proposes a multilayer sheet- or tube-type food casing or food film produced by the nozzle blast-drawing process and biaxially oriented by the triple-bubble process, which is fashioned as a food packaging having the form of shrink bags, sealable films, wrapping films or the like. This novel food casing or food film comprises at least nine layers of which an EVOH layer has the form of an oxygen barrier symmetrically embedded between two PA layers intended to impart strength and in turn symmetrically enclosed by two PO layers for the water vapor barrier, and wherein the external layer is formed by a highly temperature-resistant material such as PET which on top of its excellent optical properties also enables clearly higher speeds for further processing (cycle numbers) than were previously known.

Classifications:

International (IPC 8-9): A23L1/00 A23L3/00 B29C47/00 B29C47/06 B29C55/28 B32B27/06 B32B27/08 B32B27/32 B32B27/34 B32B27/36 B65D27/08 B65D65/40 (Advanced/Invention); B29C47/00 B29K23/00 B29K29/00 B29K67/00 B29K77/00 B29L23/00 B29L9/00 B32B27/08 B32B27/32 B32B27/34 (Advanced/Non-invention); A23L1/00 A23L3/00 B29C47/00 B29C48/00 B29C55/28 B32B27/00 B32B27/08 B32B27/32 B32B27/34 B32B27/36 B65D27/00 B65D65/40 (Core/Invention); B29C B32B (Subclass/Invention)

International (IPC 1-7): B29C47/00 B32B27/08 B32B27/32 B32B27/34 B32B27/36

CPC: B29K2023/06 B29K2023/083 B29K2023/086 B29K2033/12 B29K2067/00 B29K2069/00 B29K2077/00 B29K2105/256 B29L2031/7128 B32B27/36 Y10T428/1324 Y10T428/1328 Y10T428/1334 Y10T428/1341 Y10T428/2826 Y10T428/31507 Y10T428/31725 Y10T428/31728 Y10T428/3175 Y10T428/31757 B32B2250/05 B32B27/08 B32B27/32 B32B27/34 B29C48/0018 B29C48/022 B29C48/08 B29C48/10 B29C48/185 B29C48/21 B29C48/22

European: B29C47/00J5 B29C47/00J7 B29C47/06N B29C47/06P B32B27/08 B32B27/32 B32B27/34 B32B27/36 L29C47/00B L29C47/00L8 L29C47/06Q L29K105/25C4 L29K23/06 L29K23/08B L29K23/08D L29K33/12 L29K67/00 L29K69/00 L29K77/00 L29L31/7128

US: 428/34.8 428/34.800P 428/34.9 428/34.900S 428/349 428/35.2 428/35.200S 428/35.4 428/35.400S 428/412 428/412S 428/474.4 428/474.7 428/474.700S 428/476.3 428/476.300S 428/476.9 428/476.900S

PatBase - NZ574319_A

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Publication number	Publication date	Application number	Application date
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ZA200900763 A	20091230	ZA20090000763	20090202

Priority:

DE200610036844	20060807	AU20070283094	20070807	EP20070801535	20070807
CN200780035245	20070807	EP20100014908	20070807	EP20100149095	20070807
EP20100149194	20070807	EP20100014918	20070807	EP20100014919	20070807
EP20100014909	20070807	WO2007EP06969	20070807	US20090309997	20090206
AU20110201931	20110429	AU20110202770	20110429	US20130057489	20131018

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Agent(s): FISHER ADAMS KELLY CALLINANS; SPRUSON AND FERGUSON; CALLINANS; OGILVY RENAULT LLP SENCRL SRL; NORTON ROSE CANADA SENCRL SRL LLP; KUHNEN AND WACKER PATENT U RECHTSANWALTSBUERO; KUHNEN AND WACKER; Kuhnén & Wacker; KOPP STEPHAN; ZUAZO ALEXANDER; WOLF GREENFIELD AND SACKS PC; KUHNEN WACKER

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BH BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DO DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GT GW HN HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LA LC LI LK LR LS LT LU LV LY MA MC MD ME MG MK ML MN MR MT MW MX MY MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RS RU SC SD SE SG SI SK SL SM SN SV SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN ZA ZM ZW

Title: ABUSE-RESISTANT RETORTABLE PACKAGING FILM HAVING OXYGEN BARRIER LAYER CONTAINING BLEND OF AMORPHOUS POLYAMIDE AND SEMICRYSTALLINE POLYAMIDE

Abstract: A retortable multilayer packaging film has a crosslinked first outer layer which serves as a seal layer and product-contact layer, and a crosslinked O₂ -barrier layer. The O₂ -barrier layer comprises a blend of (i) from 50 to 95 weight percent, based on blend weight, of an amorphous polyamide with a glass transition temperature of from about 80 degrees centigrade to about 200 degrees centigrade, and (ii) a semi-crystalline polyamide. The semi-crystalline polyamide comprises at least one member selected from the group consisting of: (a) from 5 to 50 percent, based on blend weight, of PA-MXD,6/MXD,I; and (b) from 5 to 15 percent, based on blend weight, of a nucleated or non-nucleated polyamide having a viscosity number of 150 milliliters per gram to 185 milliliters per gram as measured in accordance with ISO Test Method 307. The invention also pertains to packaging articles made from the film, packaged products utilizing the film in the package, and a packaging process utilizing the film

Classifications:

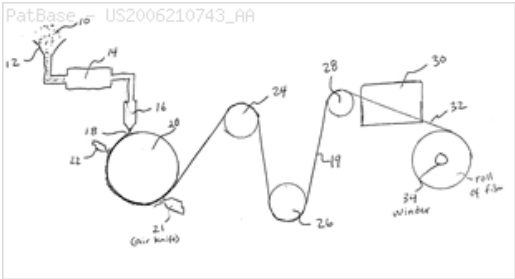
International (IPC 8-9): B32B27/06 B32B27/08 B32B27/34 B65D81/34 C08J5/18 (Advanced/Invention); B32B27/08 B32B27/34 B65D81/34 (Core/Invention)

International (IPC 1-7): B32B27/08

CPC: Y10T428/1334 Y10T428/1352 B32B27/32 B32B27/08 B32B27/34 B32B2250/24 B32B2307/31 B32B2307/554 B32B2307/5825 B32B2307/7244 B32B2307/746 B32B2553/00

European: B32B27/08 B32B27/32 B32B27/34 L32B250/24 L32B307/310 L32B307/554 L32B307/582B L32B307/724B2 L32B307/746 L32B553/00

US: 428/35.2 428/35.200S 428/35.7 428/35.700P



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AU2006227620 AA	20060928	AU20060227620	20060316
AU2006227620 BB	20110630	AU20060227620	20060316
BRPI0606286 A2	20090609	BR2006PI06286	20060316
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CA2600522 C	20120717	CA20062600522	20060316
EP1861248 A2	20071205	EP20060738549	20060316
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WO06101969 A2	20060928	WO2006US09504	20060316
WO06101969 A3	20061228	WO2006US09504	20060316

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Probable Assignee: CRYOVAC INC

Assignee(s): (std): BEKELE SOLOMON ; CRYOVAC INC ; KRAJOVAK INK

Inventor(s): (std): BEKELE SOLOMON ; SOLOMON BEKELE

Agent(s): DAVIES COLLISON CAVE; DAVIES COLLISON CAVE PTY LTD; SMART AND BIGGAR; RUPERT B HURLEY JR SEALED AIR CORP

Designated states: AE AG AL AM AT AU AZ BA BB BE BF BG BJ BR BW BY BZ CA CF CG CH CI CM CN CO CR CU CY CZ DE DK DM DZ EC EE EG ES FI FR GA GB GD GE GH GM GN GQ GR GW HR HU ID IE IL IN IS IT JP KE KG KM KN KP KR KZ LC LI LK LR LS LT LU LV LY MA MC MD MG MK ML MN MR MW MX MZ NA NE NG NI NL NO NZ OM PG PH PL PT RO RU SC SD SE SG SI SK SL SM SN SY SZ TD TG TJ TM TN TR TT TZ UA UG US UZ VC VN YU ZA ZM ZW