

PatBase - Search results 15 July 2015

Search query (2): [SP]: 1. a random block copolymer comprising: a) about 65 wt percent to about 97 wt percent of a crystalline propylene/ethylene copolymer a containing from about 0.5 weight percent to about 6 weight percent of units derived from ethylene and from about 94 weight percent to about 99.5 weight percent of units derived from propylene, having a melting point of 120 degrees centigrade to about 159 degrees centigrade and copolymerized therewith, b) about 3 wt percent to about 35 weight percent of a propylene/ethylene copolymer b containing from about 8 weight percent to about 40 weight percent of units derived from ethylene and from about 60 weight percent to about 92 weight percent of units derived from propylene, wherein the ratio of the powder mfrandom block copolymer to the powder mfrcopolymer a is in accordance with the equation mfrandom block copolymer=k(mfreopolymer a) wherein k=1.0 to about 1.5, and wherein a crystalline to amorphous spacing ratio lc/la of said random block copolymer ranges from about 1.00 to about 2.25. 2. the random block copolymer of claim 1 wherein k=1.0 to about 1.3. 3. the random block copolymer of claim 1 wherein k=1.0 to about 1.25. 4. the random block copolymer of claim 1 comprising: a) about 75 wt percent to about 95 wt percent of a crystalline propylene/ethylene copolymer a containing from about 1 wt percent to about 5 wt percent of units derived from ethylene and from about 95 wt percent to about 99 wt percent of units derived from propylene and copolymerized therewith, b) about 5 wt percent to about 25 weight percent of a propylene/ethylene copolymer b containing from about 10 weight percent to about 30 weight percent of units derived from ethylene and from about 70 weight percent to about 90 weight percent of units derived from propylene. 5. the random block copolymer of claim 1 comprising: a) about 80 wt percent to about 92 wt percent of a crystalline propylene/ethylene copolymer a containing from about 1.5 wt percent to about 4.5 wt percent of units derived from ethylene and from about 95.5 wt percent to about 98.5 wt percent of units derived from propylene and copolymerized therewith, b) about 8 wt percent to about 20 weight percent of a propylene/ethylene copolymer b containing from about 10 weight percent to about 30 weight percent of units derived from ethylene and from about 70 wt percent to about 90 wt percent of units derived from propylene. 6. the random block copolymer of claim 1 comprising: a) about 88 wt percent to about 92 wt percent of a crystalline propylene/ethylene copolymer a containing from about 2 wt percent to about 4 wt percent of units derived from ethylene and from about 96 wt percent to about 98 wt percent of units derived from propylene and copolymerized therewith, b) about 8 wt percent to about 12 weight percent of a propylene/ethylene copolymer b containing from about 12 weight percent to about 17 weight percent of units derived from ethylene and from about 83 weight percent to about 88 weight percent of units derived from propylene. 7. the random block copolymer of claim 1 wherein the crystalline to amorphous spacing ratio lc/la of said random block copolymer ranges from about 1.25 to about 2.00. 8. the random block copolymer of claim 1 wherein the crystalline to amorphous spacing ratio lc/la of said random block copolymer ranges from about 1.40 to about 1.70. 9. the random block copolymer of claim 1 further comprising 50 ppm to 5,000 ppm of a clarifying agent. 10. the random impact block copolymer of claim 9 wherein the clarifying agent is selected from the group consisting of dibenzylidene sorbitol derivatives having alkyl, alkoxy or halogen substituents on either or both aromatic rings, whereby the alkyl substituents can be c1 to c20, and may be branched, linear or cycloalkyl and combinations of said sorbitol derivatives. 11. the random block copolymer of claim 9 having a haze value at 23 degrees centigrade of from about 5 percent to about 10 percent as measured by astm d 1003, and an impact strength at 23 degrees centigrade of from about 10 kj/m2 to about 50 kj/m2 as measured by the charpy notched impact strength test in accordance with iso 179-2.

Results: 35

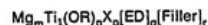
Yenny Campos

Search history

- Search 1: TAC=(block copolymer and Supertransparent and high impact strength random) (Results 1)
- Search 2: [SP]: 1. a random block copolymer comprising: a) about 65 wt percent to about 97 wt percent of a crystalline propylene/ethylene copolymer a containing from about 0.5 weight percent to about 6 weight percent of units derived from ethylene and from about 94 weight percent to about 99.5 weight percent of units derived from propylene, having a melting point of 120 degrees centigrade to about 159 degrees centigrade and copolymerized therewith, b) about 3 wt percent to about 35 weight percent of a propylene/ethylene copolymer b containing from about 8 weight percent to about 40 weight percent of units derived from ethylene and from about 60 weight percent to about 92 weight percent of units derived from propylene, wherein the ratio of the powder mfrandom block copolymer to the powder mfrcopolymer a is in accordance with the equation mfrandom block copolymer=k(mfreopolymer a) wherein k=1.0 to about 1.5, and wherein a crystalline to amorphous spacing ratio lc/la of said random block copolymer ranges from about 1.00 to about 2.25. 2. the random block copolymer of claim 1 wherein k=1.0 to about 1.3. 3. the random block copolymer of claim 1 wherein k=1.0 to about 1.25. 4. the random block copolymer of claim 1 comprising: a) about 75 wt percent to about 95 wt percent of a crystalline propylene/ethylene copolymer a containing from about 1 wt percent to about 5 wt percent of units derived from ethylene and from about 95 wt percent to about 99 wt percent of units derived from propylene and copolymerized therewith, b) about 5 wt percent to about 25 weight percent of a propylene/ethylene copolymer b containing from about 10 weight percent to about 30 weight percent of units derived from ethylene and from about 70 weight percent to about 90 weight percent of units derived from propylene. 5. the random block copolymer of claim 1 comprising: a) about 80 wt percent to about 92 wt percent of a crystalline propylene/ethylene copolymer a containing from about 1.5 wt percent to about 4.5 wt percent of units derived from ethylene and from about 95.5 wt percent to about 98.5 wt percent of units derived from propylene and copolymerized therewith, b) about 8 wt percent to about 20 weight percent of a propylene/ethylene copolymer b containing from about 10 weight percent to about 30 weight percent of units derived from ethylene and from about 70 wt percent to about 90 wt percent of units derived from propylene. 6. the random block copolymer of claim 1 comprising: a) about 88 wt percent to about 92 wt percent of a crystalline propylene/ethylene copolymer a containing from about 2 wt percent to about 4 wt percent of units derived from ethylene and from about 96 wt percent to about 98 wt percent of units derived from propylene and copolymerized therewith, b) about 8 wt percent to about 12 weight percent of a propylene/ethylene copolymer b containing from about 12 weight percent to about 17 weight percent of units derived from ethylene and from about 83 weight percent to about 88 weight percent of units derived from propylene. 7. the random block copolymer of claim 1 wherein the crystalline to amorphous spacing ratio lc/la of said random block copolymer ranges from about 1.25 to about 2.00. 8. the random block copolymer of claim 1 wherein the crystalline to amorphous spacing ratio lc/la of said random block copolymer ranges from about 1.40 to about 1.70. 9. the random block copolymer of claim 1 further comprising 50 ppm to 5,000 ppm of a clarifying agent. 10. the random impact block copolymer of claim 9 wherein the clarifying agent is selected from the group consisting of dibenzylidene sorbitol derivatives having alkyl, alkoxy or halogen substituents on either or both aromatic rings, whereby the alkyl substituents can be c1 to c20, and may be branched, linear or cycloalkyl and combinations of said sorbitol derivatives. 11. the random block copolymer of claim 9 having a haze value at 23 degrees centigrade of from about 5 percent to about 10 percent as measured by astm d 1003, and an impact strength at 23 degrees centigrade of from about 10 kj/m2 to about 50 kj/m2 as measured by the charpy notched impact strength test in accordance with iso 179-2. (Results 35)

Title: SPHEROIDAL POLYMERIZATION CATALYST, PROCESS FOR PREPARING, AND USE FOR ETHYLENE POLYMERIZATION**Abstract:** Source: US4293673A A catalyst composition formed from selected organoaluminum compounds and a precursor composition of the formula $Mg_mTi_1(OR)_nX_p[ED]_q[Filler]_r$ **Classifications:****International (IPC 8-9):** B01J31/38 B01J37/00 C08F10/00 C08F10/02 C08F2/00 C08F2/34 C08F210/16 C08F4/00 C08F4/02 C08F4/60 C08F4/64 C08F4/659 (Advanced/Invention); C08F10/00 C08F2/34 C08F210/00 C08F4/00 (Core/Invention)
International (IPC 1-7): B01J11/00 B01J21/06 B01J21/10 B01J27/06 B01J31/38 B01J37/00 C08F1/00 C08F10/00 C08F10/02 C08F2/34 C08F255/02 C08F3/00 C08F4/02 C08F4/50 C08F4/64 C08F4/66**CPC:** Y10S526/904 C08F210/16 C08F10/02**European:** C08F10/02 C08F210/16 M08F210/16**US:** 252/429B 502/112 502/120 502/125 502/126 502/127 502/9 526/124.4 526/124.6 526/124.8 526/124.9 526/125 526/348.6 526/352 526/88 526/904 526/97

PatBase - US4293673_A


$$\begin{aligned} m &\geq 0.5 \text{ to } \leq 56 \\ n &\text{ is 0 or 1} \\ p &\geq 6 \text{ to } \leq 116 \\ q &\geq 2 \text{ to } \leq 85 \end{aligned}$$
Family:

Publication number	Publication date	Application number	Application date
AR226551 A1	19820730	AR19790279437	19791226
AT22903 E	19861115	AT19790105388T	19791227
AU197954221 A1	19800703	AU19790054221	19791227
AU528633 B2	19830505	AU19790054221	19791227
BR7908488 A	19800923	BR19790008488	19791226
CA1134803 A1	19821102	CA19790342244	19791219
CS214686 B2	19820528	CS19790009418	19791227
CS223985 B2	19831125	CS19800006338	19791227
DE2967626 D1	19861120	DE19792967626	19791227
DK550479 A	19800629	DK19790005504	19791221
EG14211 A	19830930	EG19790000776	19791226
EP0020818 A1	19810107	EP19790105388	19791227
EP0020818 B1	19861015	EP19790105388	19791227
ES487292 A1	19801201	ES19790487292	19791227
ES8100666 A1	19810201	ES19790487292	19791227
FI66402 B	19840629	FI19790003940	19791217
FI66402 C	19841010	FI19790003940	19791217
FI793940 A	19800629	FI19790003940	19791217
GR73129 A	19840207	GR19790060853	19791227
IN152145 A	19831029	IN1979CA01347	19791227
IN155121 A	19850105	IN1982CA00955	19820816
JP1387242 C3	19870714	JP19790167746	19791225
JP55120608 A2	19800917	JP19790167746	19791225
JP59131606 A2	19840728	JP19830218793	19831122
JP61049321 B4	19861029	JP19790167746	19791225
MX155152 A	19880201	MX19800180660	19800102
NO156289 B	19870518	NO19790004204	19791220
NO156289 C	19870826	NO19790004204	19791220
NO794204 A	19800701	NO19790004204	19791220
NZ192486 A	19820323	NZ19790192486	19791221
PH15834 A	19830408	PH19790023460	19791226
PT70637 A	19800101	PT19790070637	19791227
SG8990091 A	19890707	SG19890090091	19890214
SU1135427 D	19850115	SU19792860150	19791227
US4293673 A	19811006	US19790095010	19791128
US4376062 A	19830308	US19810249446	19810331
ZA7906613 A	19801126	ZA19790006613	19791205

Priority:

US19780974013 19781228	US19790095010 19791128	IN1979CA01347 19791227
EP19790105388 19791227	JP19790167746 19791225	CA19790342244 19791219
IN1982CA00955 19820816	US19810249446 19810331	

Probable Assignee: UNION CARBIDE CORP**Assignee(s):** (std): UNION CARBIDE CORP**Assignee(s):** UNION CARBIDE CORP NEW YORK US ; UNION CARBIDE CORP US ; YUNION KARBID CORP FA ; HAMER ANTHONY D ; KAROL FREDERICK J ; MORGAN GUARANTY TRUST CO ; MORGAN GUARANTY TRUST CO OF NEW YORK AND MORGAN BA ; MORGAN GUARANTY TRUST CO OF NEW YORK AND MORGAN BANK DELAWARE COLLATERAL AGENTS SEE RECORD FOR REMAINING ASSIGNEES AS**Inventor(s):** (std): ANTONII DEIBITSUDO HEIMAA ; HAMER A ; HAMER A D ; HAMER A ANTHONY DAVID ; HAMER ANTHONY D ; HAMER ANTHONY DAVID ; HAMMER A ; HAMMER ANTHONY DAVID ; KAROL F ; KAROL F J ; KAROL FREDERICK J ; FUREDERITSUKU JIYON KARORU ; KAROL FREDERICK JOHN ; KAROL FREDERIK DZHON ; KHAMER ANTONU DEVID**Inventor(s):** FUREDERITSUKU JON KARORU ; KAROL FREDERICK J US ; HAMER ANTHONY D US ; ANTONU DEVID KHAMER US ; FREDERICK JOHN KAROL ; FREDERIK DZHON KAROL US ; ANTHONY DAVID HAMER**Designated states:** AT BE CH DE FR GB IT LU NL SE

Title: CATALYST COMPOSITION FOR POLYMERIZING ETHYLENE

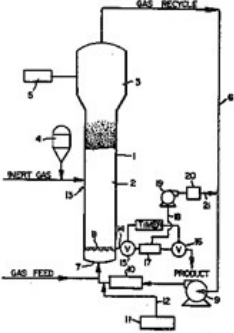
Abstract: Source: US4379758A Catalyst compositions suitable for producing high density ethylene polymers in a low pressure gas phase process with low accompanying ethylene hydrogenation are produced by forming a precursor composition from a magnesium compound, titanium compound and electron donor compound; diluting said precursor composition with an inert carrier material; treating said diluted precursor composition with a boron halide compound; and activating the precursor composition with an organo aluminum compound.

Classifications:

International (IPC 8-9): B01J21/06 C08F10/02 C08F110/02 C08F2/34 C08F210/16 C08F4/00 C08F4/02 C08F4/60 C08F4/64 C08F4/646 C08F4/658 (Advanced/Invention); C08F110/02 C08F2/34 C08F4/00 (Advanced/Non-invention); C08F10/00 C08F110/00 C08F2/34 C08F210/00 C08F4/00 (Core/Invention); C08F110/00 (Core/Non-invention)
International (IPC 1-7): B01J11/02 B01J21/02 B01J21/06 B01J21/10 C07C C08F1/00 C08F10 C08F10/00 C08F10/02 C08F110/02 C08F15/00 C08F2/34 C08F210/16 C08F3/00 C08F4/00 C08F4/02 C08F4/50 C08F4/64 C08F4/646 C08F4/651 C08F4/654 C08F4/66 C08FA C08G C08L93/00
CPC: Y10S526/901 C08F10/02 C08F110/02
European: C08F10/02 M08F10/02 M08F110/02
US: 252/429B 252/429C 502/104 502/112 502/115 502/119 502/120 502/125 502/126 502/127 502/203 526/124.6 526/124.8 526/125 526/125.3 526/125.4 526/352 526/88 526/901

PatBase - US4379758_R

U.S. Patent Apr. 12, 1983 4,379,758



Family:

Publication number	Publication date	Application number	Application date
AT12506 E	19850415	AT19810306093T	19811223
AU198178790 A1	19820701	AU19810078790	19811222
AU545015 B2	19850627	AU19810078790	19811222
BR8108356 A	19821013	BR19810008356	19811222
CA1173424 A1	19840828	CA19810391173	19811130
CS232720 B2	19850214	CS19810009719	19811223
CS232750 B2	19850214	CS19830003087	19830502
DD202442 A5	19830914	DD19810236173	19811223
DE3169765 D1	19850509	DE19813169765	19811223
DK161650 B	19910729	DK19810005767	19811223
DK161650 C	19920120	DK19810005767	19811223
DK576781 A	19820625	DK19810005767	19811223
EG15689 A	19870330	EG19810000778	19811223
EP0055605 A2	19820707	EP19810306093	19811223
EP0055605 A3	19820804	EP19810306093	19811223
EP0055605 B1	19850403	EP19810306093	19811223
ES508324 A1	19830416	ES19810508324	19811223
ES518715 A1	19840201	ES19820518715	19821230
ES8305382 A1	19830701	ES19810508324	19811223
ES8401992 A1	19840401	ES19820518715	19821230
FI70418 B	19860327	FI19810004100	19811221
FI70418 C	19860912	FI19810004100	19811221
FI814100 A	19820625	FI19810004100	19811221
GR77631 A	19840925	GR19810066880	19811221
HU185489 B	19850228	HU19810003909	19811222
IE52619 B	19880106	IE19810003073	19811223
IE813073 L	19820624	IE19810003073	19811223
IL64514 A0	19820331	IL19810064514	19811211
IL64514 A1	19841031	IL19810064514	19811211
IN155642 A	19850216	IN1981CA01446	19811223
IN160793 A	19870808	IN1984MA00451	19840620
JP1445679 C3	19880630	JP19810207280	19811223
JP57131207 A2	19820814	JP19810207280	19811223
JP62056885 B4	19871127	JP19810207280	19811223
KR870000215 B1	19870217	KR19810005149	19811223
MA19356 A1	19820701	MA19810019560	19811211
NO160084 B	19881128	NO19810004405	19811222
NO160084 C	19890308	NO19810004405	19811222
NO814405 A	19820625	NO19810004405	19811222
NZ199249 A	19840531	NZ19810199249	19811211
PH17075 A	19840524	PH19810026672	19811223
PL134401 B1	19850831	PL19820234595	19820104
PL135930 B1	19860131	PL19820244041	19820104
PL234595 A1	19820913	PL19820234595	19820104
SU1384204 A3	19880323	SU19823388047	19820118
TR21811 A	19850722	TR19810021811	19811218
US4379758 A	19830412	US19800219877	19801224
US5019633 A	19910528	US19870068756	19870629
ZA8108699 A	19821124	ZA19810008699	19811215

Priority:

US19800219877 19801224	US19800219877 19801224	CS19810009719 19811223
IN1981MA01446 19811223	EP19810306093 19811223	CA19810391173 19811130
SU19823388047 19820118	CS19830003087 19830502	IN1984MA00451 19840620
US19870068756 19870629	US19830464566 19830207	

Probable Assignee: TECHNOLOGY CORP

Assignee(s): (std): TECHNOLOGY CORP ; UNION CARBIDE CORP

Assignee(s): UNION CARBID CORP ; MORGAN GUARANTY TRUST CO OF NEW YORK AND MORGAN BA ; UNION CARBIDE A CORP OF NY CORP ; UNION CARBIDE CORP NEW YORK US ; MORGAN GUARANTY TRUST CO OF NEW YORK AND MORGAN BANK DELAWARE COLLATERAL AGENTS SEE RECORD FOR REMAINING ASSIGNEES AS ; MORGAN GUARANTY TRUST CO OF NEW YORK AND MORGAN BANK (DELAWARE) COLLATERAL (AGENTS) SEE RECORD FOR REMAINING ASSIGNEES AS ; YUNION KARBID CORP FA ; UNION CARBIDE CORP US ; WAGNER BURKHARD E ; GEORGE KATHLEEN F ; GOEKE GEORGE L ; KAROL FREDERICK J ; MORGAN GUARANTY TRUST CO

Inventor(s): (std): BURKHARD ERIC WAGNERS ; BURKHART ERIC WAGNER ; ERIC WAGNER BURKHARD ; FREDERICK JOHN KAROL ; FUREDERITSUKU JIYON KARORU ; FUREDERITSUKU JON KARORU ; GEORGE K ; GEORGE K F ; GEORGE KATHLEEN F ; GEORGE KATHLEEN FRANCE ; GEORGE LEONARD GOEKE ; GOEKE G ; GOEKE G L ; GOEKE GEORGE L ; GOELKE GEORGE L ; JIYOOJI RENAADO GOOKE ; JOHN KAROL FREDERICK ; JOOJI RENAADO GOOKE ; KAROL F ; KAROL F J ; KAROL FREDERICK J ; KAROL GEORGE LEONARD GOECKE FR ; KASURIIN FURANSESU JIYOOJI ; KASURIIN FURANSESU JOOJI ; KATHLEEN FRANCES GEORGE ; LEONARD GOEKE GEORGE ; WAGNER B ; WAGNER B E ; KAROL FREDERIK DZHON ; KAROL FREDERICK JOHN ; GOEKE GEORGE LEONARD ; GOEK DZHORDZH LEONARD ; GEORGE LEONARD GOECKE FREDERIC ; GEORGE KATHLEEN FRANCES ; WAGNER BURKHARD E ; WAGNER BURKHARD ERIC ; VAGNER BERKKHARD ERIK ; BAAKUHAADO ERITSUKU WAGUNAA ; DZHORDZH KATLIN FRANCHES

Inventor(s): BERKKHARD ERIK VAGNER US ; BURKHARD ERIC WAGNER ; KATLIN FRANCHES DZHORDZH US ; FREDERIK DZHON KAROL US ; DZHORDZH LEONARD GOEK US ; WAGNER BE ; KATHLEEN FRANCE GEORGE ; KAROL FJ ; GOEKE GL ; GEORGE KF ; GEORGE LEONARD GOECKE FREDERIC JOHN KAROL

Designated states: AT BE CH DE FR GB IT LI NL SE

Title: Polypropylene composition

Abstract: Source: US5045589A The present invention relates to a polypropylene composition comprising a crystalline ethylene-propylene block copolymer having an ethylene content of 5-20 percent by weight and a melt flow index of 11-90, a thermoplastic elastomer, an amorphous propylene- alpha -olefin random copolymer having a number-average molecular weight of 1,000-20,000 and a propylene content of 40-95 percent by weight and an inorganic filler. This composition can be made into a molded article having no flow mark on the surface. The molded article is superior in rigidity, heat deformation resistance, low temperature impact resistance and coatability, has appearance free from waviness, voids, etc., and is suitable for use particularly in high quality bumper for automobiles.

Classifications:

International (IPC 8-9): C08K3/00 C08L21/00 C08L23/00 C08L23/08 C08L23/16 C08L51/00 C08L51/06 C08L53/00 (Advanced/Invention); C08K3/00 C08L21/00 C08L23/00 C08L53/00 (Core/Invention)

International (IPC 1-7): C08K53/00 C08L21/00 C08L23/08 C08L23/14 C08L23/16 C08L51/00 C08L51/06 C08L53/00

CPC: C08K3/0033 C08L53/00

European: C08K3/00P5 C08L53/00

US: 524/505 525/88 525/89

Family:

Publication number	Publication date	Application number	Application date
CA2002506 AA	19900521	CA19892002506	19891108
JP1988047 C3	19951108	JP19880294432	19881121
JP2140258 A2	19900529	JP19880294432	19881121
JP7025985 B4	19950322	JP19880294432	19881121
US5045589 A	19910903	US19890438878	19891120

Priority:

JP19880294432 19881121 CA19892002506 19891108

Probable Assignee: UBE IND LTD

Assignee(s): (std): UBE IND ; UBE INDUSTRIES

Assignee(s): UBE INDUSTRIES LTD ; UENO KOUHEI ; UBE IND LTD

Inventor(s): (std): UENO KOHEI ; UENO KOUHEI

Title: Propylene polymer composition having good transparency and improved impact resistance

Abstract: Source: US5298561A Propylene polymer compositions having good transparency and improved impact resistance at low temperature comprising: a) 70 to 98 percent by weight crystalline copolymer of ethylene with propylene and/or with an alpha olefin of the formula H₂C=CHR where R is a C2-8 linear or branched alkyl radical and b) 2 to 30 percent by weight of an elastomeric propylene-ethylene copolymer. The portion of said copolymer b) soluble in xylene at room temperature has an intrinsic viscosity (I.V. 2) which satisfies the following relation: 0.2 less than or equal to (I.V. 2/I.V. 1)ss(C₂-) less than or equal to 0.6 where I.V. 1 is the intrinsic viscosity of the crystalline propylene copolymer, (C₂-) is the ethylene weight content of b). The ratio between the ethylene weight content in b) and the weight of the xylene soluble portion is equal to or less than 1.5. The compositions are prepared by sequential polymerization of the monomers in the presence of Ziegler-Natta stereospecific catalysts which include a titanium compound supported on a magnesium dihalide in active form.

Classifications:

International (IPC 8-9): C08F10/06 C08F2/00 C08F210/02 C08F210/16 C08F297/08 C08F4/64 C08L23/00 C08L23/02 C08L23/04 C08L23/08 C08L23/10 C08L23/14 C08L23/16 (Advanced/Invention); C08F2/00 C08F210/16 (Advanced/Non-invention)

International (IPC 1-7): C08F10/06 C08F110/00 C08F2/00 C08F2/12 C08F2/34

C08F21/006 C08F210/02 C08F210/06 C08F210/16 C08F297/08 C08F4/02 C08F4/64 C08L23/00 C08L23/02 C08L23/04 C08L23/08 C08L23/10 C08L23/12 C08L23/14 C08L23/16 C08L25/04

CPC: C08F10/06 C08F210/16 C08F297/083 C08L23/0815 C08L23/14 C08L23/142 C08L23/16 C08L2205/02 C08L2314/02

European: C08F10/06 C08F297/08B C08L23/14A C08L23/14A+B2 M08F210/16 M08L205/02 M08L23/08A1 M08L23/14 M08L23/16 M08L314/02

US: 525/240 525/322 525/323

PatBase - US5298561_A

$$0.2 \leq (I.V. 2 / I.V. 1) \times (C_2^-) \leq 0.6$$

Family:

Publication number	Publication date	Application number	Application date
AR244277 A1	19931029	AR19890315669	19891214
AT133971 E	19960215	AT19890123185T	19891214
AU198946763 A1	19900621	AU19890046763	19891214
AU616330 B2	19911024	AU19890046763	19891214
BRPI8906455 A	19900821	BR1989PI06455	19891214
CA2005537 AA	19900614	CA19892005537	19891214
CA2005537 C	19990629	CA19892005537	19891214
CN1045983 A	19901010	CN19891009800	19891214
CN1050850 C	20000329	CN19891009800	19891214
CZ282716 B6	19970917	CS19890007079	19891214
CZ8907079 A3	19970611	CS19890007079	19891214
DE68925628 D1	19960321	DE19896025628	19891214
DE68925628 T2	19960905	DE19896025628T	19891214
EP0373660 A2	19900620	EP19890123185	19891214
EP0373660 A3	19910925	EP19890123185	19891214
EP0373660 B1	19960207	EP19890123185	19891214
ES2085270 T3	19960601	ES19890123185T	19891214
FI101074 B	19980415	FI19890005952	19891213
FI895952 A0	19891213	FI19890005952	19891213
HU212449 B	19960628	HU19890006604	19891214
HU221242 B1	20020928	HU19760095013	19891214
HU53134 A2	19900928	HU19890006604	19891214
HU8906604 A0	19900328	HU19890006604	19891214
HU9501376 A0	19950628	HU19950001376	19891214
IL92654 A0	19900831	IL19890092654	19891212
IL92654 A1	19940412	IL19890092654	19891212
IN173744 A	19940709	IN1989CA01022	19891212
IT1227893 A	19910514	IT19880022940	19881214
IT8822940 A0	19881214	IT19880022940	19881214
JP2258854 A2	19901019	JP19890324882	19891214
JP3065325 B2	20000717	JP19890324882	19891214
KR0156560 B1	19981201	KR19890018556	19891214
MX18699 A	19940131	MX19890018699	19891213
NO306819 B1	19991227	NO19890005011	19891213
NO895011 A	19900615	NO19890005011	19891213
NO895011 A0	19891213	NO19890005011	19891213
PT92582 A	19900629	PT19890092582	19891214
PT92582 B	19950912	PT19890092582	19891214
RU2043373 C1	19950910	SU19894742867	19891213
US5298561 A	19940329	US19920998261	19920911
YU236289 A	19910430	YU19890002362	19891213
ZA8909482 A	19900926	ZA19890009482	19891212

Priority:

IT19880022940 19881214	IN1989CA01022 19891212	HU19890006604 19891214
US19920998261 19920911	US19890450780 19891214	CA19892005537 19891214

Probable Assignee: HIMONT INC

Assignee(s): (std): HIMONT INC ; HIMONT INC CENTERVILLE ROAD NE ; HIMONT INC US ; MONTELL NORTH AMERICAN INC ; MONTELL NORTH AMERICA INC

Assignee(s): MONTELL NORTH AMERICA INC NEW CASTLE DEL US ; CECCHIN GIULIANO ; GUGLIELMI FLORIANO ; KHAJMONT INKORPOREJTED

Inventor(s): (std): CECCHIN G ; CECCHIN GIULIANO ; CECCHIN GIULIANO IT ; GUGLIELMI F ; GUGLIELMI FLORIANO ; GUGLIEMI FLORIANO ; GUGLIEMI FLORIANO IT ; LECCHIN GIULIANO ; GUGLIEIMI FLORIANO ; GIULIANO CECCHIN ; FLORIANO GULELMI ; FLORIANO GUGLIELMI ; DZHULIANO CHECHIN ; JIYURIANO CHIETSUCHIN ; FURORIANO GUGURIERUMI

Inventor(s): CECCHIN GIULIANO I 44100 FERRARA IT ; GUGLIELMI FLORIANO I 44100 FERRARA IT

Designated states: AT BE DE ES FR GB IT NL SE

Title: Olefin polymerization catalyst

Abstract: Source: US5066737A A complex, magnesium-containing, titanium-containing solid olefin polymerization procatalyst precursor is produced by reaction of magnesium alkoxide, titanium tetraalkoxide and a phenolic compound followed by removal of alkanol. Conversion of this solid to an olefin polymerization procatalyst and the procatalyst to an olefin polymerization catalyst results in a catalyst which is used to polymerize lower alpha -olefin monomers. The polymer product is obtained in good yield and has good properties including a relatively high bulk density and a relatively narrow particle size distribution.

Classifications:
International (IPC 8-9): C08F10/00 C08F2/00 C08F4/60 C08F4/64 C08F4/642 C08F4/646 C08F4/649 C08F4/653 C08F4/654 C08F4/657 C08F4/658 (Advanced/Invention); C08F110/06 (Advanced/Non-invention); C08F10/00 C08F4/00 (Core/Invention); C08F110/00 (Core/Non-invention)
International (IPC 1-7): C07C2/30 C08F10/00 C08F10/00 C08F2/00 C08F4/00 C08F4/02 C08F4/04 C08F4/64 C08F4/642 C08F4/646 C08F4/649 C08F4/653 C08F4/654 C08F4/657 C08F4/658
CPC: C08F10/00 C08F110/06
European: C08F10/00 M08F110/06
US: 502/111 502/121 502/123 502/124 502/125 502/126 502/127 502/128 502/133 526/118 526/119 526/124.4 526/127 526/128 526/132 526/142 526/143 526/351 526/352 585/512 585/532

PatBase - JP2002088115 表 I						
実験	起 源	方法	触媒中の Ti(%)	収率	XS	BD
1	Mg(OC ₂ H ₅) ₂	-	2.28	26.6	2.7	0.33
2	E	2	2.43	26.1	3.5	0.363
3	D	2	2.42	30.8	3.5	0.38
4	E	2	2.34	31.2	3.6	0.374

Family:

Publication number	Publication date	Application number	Application date
AT182337 E	19990815	AT19910309518T	19911016
AT220693 E	20020815	AT19910124309T	19911016
AT221087 E	20020815	AT19910124308T	19911016
AT228145 E	20021215	AT19910124311T	19911016
AT239044 E	20030515	AT19910124310T	19911016
CA2053645 AA	19920419	CA19912053645	19911017
CA2053645 C	20021015	CA19912053645	19911017
DE69131457 D1	19990826	DE19916031457	19911016
DE69131457 T2	19991111	DE19916031457T	19911016
DE69133071 D1	20020822	DE19916033071	19911016
DE69133071 T2	20030306	DE19916033071T	19911016
DE69133078 D1	20020829	DE19916033078	19911016
DE69133078 T2	20030306	DE19916033078T	19911016
DE69133163 D1	20030102	DE19916033163	19911016
DE69133163 T2	20031009	DE19916033163T	19911016
DE69133248 D1	20030605	DE19916033248	19911016
DE69133248 T2	20040129	DE19916033248T	19911016
DK0481749 T3	19991129	DK19910309518T	19911016
EP0481749 A2	19920422	EP19910309518	19911016
EP0481749 A3	19920826	EP19910309518	19911016
EP0481749 B1	19990721	EP19910309518	19911016
EP0908469 A2	19990414	EP19980124310	19911016
EP0908469 A3	20000531	EP19980124310	19911016
EP0908469 B1	20030502	EP19980124310	19911016
EP0908470 A2	19990414	EP19980124311	19911016
EP0908470 A3	20000517	EP19980124311	19911016
EP0908470 B1	20021120	EP19980124311	19911016
EP0908471 A2	19990414	EP19980124308	19911016
EP0908471 A3	20000524	EP19980124308	19911016
EP0908471 B1	20020724	EP19980124308	19911016
EP0908472 A2	19990414	EP19980124309	19911016
EP0908472 A3	20000531	EP19980124309	19911016
EP0908472 B1	20020717	EP19980124309	19911016
ES2135388 T3	19991101	ES19910309518T	19911016
ES2176892 T3	20021201	ES19980124308T	19911016
ES2176893 T3	20021201	ES19980124309T	19911016
ES2183282 T3	20030316	ES19980124311T	19911016
ES2192740 T3	20031016	ES19980124310T	19911016
GR3031277 T3	19991231	GR19990402375T	19990922
JP2002088111 A2	20020327	JP20010235995	20010803
JP2002088112 A2	20020327	JP20010236003	20010803
JP2002088113 A2	20020327	JP20010236063	20010803
JP2002088115 A2	20020327	JP20010235988	20010803
JP3251037 B2	20020128	JP19910271048	19911018
JP3340728 B2	20021105	JP20010235988	20010803
JP3340729 B2	20021105	JP20010236003	20010803
JP3340730 B2	20021105	JP20010236063	20010803
JP3392124 B2	20030331	JP20010235995	20010803
JP6041226 A2	19940215	JP19910271048	19911018
KR100214890 B1	19990802	KR19910018324	19911017
US5066737 A	19911119	US19900600781	19901022
US5077357 A	19911231	US19900600898	19901022
US5082907 A	19920121	US19900599550	19901018
US5106806 A	19920421	US19900599610	19901018
US5124298 A	19920623	US19910730137	19910715
US5132263 A	19920721	US19910749806	19910826
US5141910 A	19920825	US19910759351	19910913
US5146028 A	19920908	US19920833185	19920210
US5151399 A	19920929	US19900599538	19901018
US5229342 A	19930720	US19920913233	19920624

Priority:			
US19900599550	19901018	US19900599550	19901018
US19900600781	19901022	US19900599610	19901018
US19900600898	19901022	US19900599538	19901018
EP19910309518	19911016	JP19910271048	19911018
US19920913233	19920624	US19910749806	19910826
CA19912053645	19911017	US19900599610	19901018
		US19900600898	19901022
		US19910730137	19910715
		US19910759351	19910913
		US19920833185	19920210

Probable Assignee: UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY CORP
Assignee(s): (std): SHELL OIL CO ; UNION CARBIDE CHEM PLASTIC
Assignee(s): SHELL POLYPROPYLENE CO ; UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY CO ; UNION CARBIDE CHEM AND PLAST TECHNOL CORP ; SHELL OIL CO A DE CORP ; UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY CORP ; UNION CARBIDE CHEMICALS AND PLASTICS TECHNOLOGY CORP DANBURY ; SHELL OIL CO A CORP OF DE ; CHEVRON CHEMICAL CO ; JOB ROBERT CHARLES
Inventor(s): (std): JOB ROBERT CHARLES ; ROBAATO CHIYAARUZU JIYOBU ; ROBERT C JOB ; JOB ROBERT C
Designated states: AT BE CH DE DK ES FR GB GR IT LI LU NL SE

Title: Propylene copolymers with reduced tendency to stress whitening.

Abstract: Copolymers of propylene with 1-alkenes, obtainable by two-step polymerisation from the gas phase in an agitated fixed bed by means of a Ziegler-Natta catalyst system containing, as cocatalysts, an aluminium compound and an organosilicon compound in addition to a supported titanium-containing solids component, where a) in the first polymerisation step, propylene is polymerised together with a further alk-1-ene in the presence of hydrogen at a pressure of from 15 to 40 bar, a temperature of from 60 to 90°C and a mean residence time of the reaction mixture of from 0.7 to 5 hours, and the ratio between the partial pressure of the propylene and the partial pressure of the further alk-1-ene is in this case set at from 10:1 to 500:1, and the ratio between the partial pressure of the propylene and the partial pressure of the hydrogen is set at from 30:1 to 180:1, and subsequently b) in a second polymerisation step, propylene and a further alk-1-ene are polymerised onto the polymer obtained from the first polymerisation step in the presence of hydrogen at a pressure of from 5 to 25 bar, where this pressure is at least 3 bar below the pressure in the first polymerisation step, a temperature of from 40 to 90°C and a mean residence time of the reaction mixture of from 0.7 to 5 hours, where the ratio between the partial pressure of propylene and the partial pressure of the further alk-1-ene is set at from 0.3:1 to 10:1, the ratio between the partial pressure of propylene and the partial pressure of hydrogen is set at from 4:1 to 1:1, and the weight ratio between the monomers reacted in the first and second polymerisation steps is set at from 0.5:1 to 20:1.

Classifications:

International (IPC 8-9): C08F10/00 C08F2/00 C08F2/34 C08F2/38 C08F210/04 C08F210/06 C08F210/16 C08F297/08 C08F4/60 C08F4/642 C08F4/645 C08F4/646 C08L23/10 C08L23/14 (Advanced/Invention)

International (IPC 1-7): B29C45/00 B29L23/22 B29L31/00 B29L7/00 C08F2/00 C08F2/34 C08F2/38 C08F210/02 C08F210/04 C08F210/06 C08F210/08 C08F210/14 C08F210/16 C08F255/02 C08F255/04 C08F297/08 C08F297/08 C08F297/08 C08F4/02 C08F4/58 C08F4/642 C08F4/645 C08F4/646 C08J5/00 C08J5/18 C08L23/14 C08L23/16 C08L23/20 C08L51/06 C08L53/00 D01F6/30

CPC: C08F210/06 C08F297/08 C08L23/10 C08L23/14 C08L2205/02

European: C08F210/06 C08F297/08 C08L23/10 C08L23/14 M08F210/06 M08L205/02

Family:

Publication number	Publication date	Application number	Application date
DE4242056 A1	19940616	DE19924242056	19921214
DE59305753 D1	19970417	DE19935005753	19931208
EP0602512 A2	19940622	EP19930119725	19931208
EP0602512 A3	19941221	EP19930119725	19931208
EP0602512 B1	19970312	EP19930119725	19931208
ES2098639 T3	19970501	ES19930119725T	19931208
JP3459284 B2	20031020	JP19930307911	19931208
JP6293814 A2	19941021	JP19930307911	19931208
ZA9309308 A	19950613	ZA19930009308	19931213

Priority:

DE19924242056 19921214 DE19935005753 19931208

Probable Assignee: BASF AG

Assignee(s): (std): BASF AG

Assignee(s): BASF AG 67063 LUDWIGSHAFEN ; BASF AG 67063 LUDWIGSHAFEN DE ; BASF AKTIENGESELLSCHAFT

Inventor(s): (std): HUNGENBERG KLAUS DIETER DR ; OVERTHUN KLAUS ; MUELLER PATRIK DR ; SCHWAGER HARALD DR ; SCHWAGER HARALD ; PATORITSUKU MIYURAA ; MUELLER PATRIK ; KURAUSUUEIITAA FUNGENBERUKU ; KURAUSU OOFUAATSUN ; HUNGENBERG KLAUS DIETER ; HAARARUTO SHIYUBUAGAA

Inventor(s): SCHWAGER HARALD DR D 67346 SPEYER DE ; MUELLER PATRIK DR D 67661 KAISERSLAUTERN DE ; OVERTHUN KLAUS 6701 FUSGOENHEIM ; OVERTHUN KLAUS D 67136 FUSGOENHEIM DE ; PATRIK MUELLER ; HUNGENBERG KLAUS DIETER DR D 69488 BIRKENAU DE ; KLAUS DIETER HUNGENBERG ; KLAUS OVERTHUN ; HARALD SCHWAGER

Designated states: BE DE ES FR GB IT NL

Title: POLYPROPYLENE COMPOSITION AND USES THEREOF

Abstract: Source: US5998039A Disclosed is a polypropylene composition comprising (A) polypropylene and (B) a specific propylene-1-butene random copolymer in a specific amount ratio. The propylene-1-butene random copolymer (B) is characterized in that: (1) the copolymer contains 50 to 95 percent by mol of constituent units from propylene and 50 to 5 percent by mol of constituent units from 1-butene, (2) the intrinsic viscosity, as measured in decahydronaphthalene at 135 DEG C., is in the range of 0.1 to 12 dl/g, (3) the molecular weight distribution (Mw/Mn), as determined measured by GPC, is not more than 3, and (4) the parameter B value indicating randomness of the copolymerized monomer sequence distribution is in the range of 1.0 to 1.5. Also disclosed is a polypropylene composite film comprising (I) a crystalline polypropylene layer and (II) a layer formed from the polypropylene composition, which is laminated on at least one surface of the crystalline polypropylene layer (I). The polypropylene composition is excellent in heat resistance and low-temperature heat-sealing properties as well as in flexibility and impact resistance. The polypropylene composite film is excellent in not only heat-sealing properties, particularly low-temperature heat-sealing properties, but also transparency, scratch resistance and blocking resistance.

Classifications:

International (IPC 8-9): B29C55/12 B32B27/00 B32B27/32 C08F10/00 C08F210/06 C08F210/16 C08F4/60 C08F4/642 C08F4/6592 C08F8/00 C08J5/18 C08L23/00 C08L23/10 C08L23/12 C08L23/14 C08L23/16 C08L23/18 C08L23/20 (Advanced/Invention); B29K23/00 B29L7/00 B29L9/00 B32B27/00 C08F210/06 C08F210/16 C08F4/642 C08L23/10 C08L23/20 (Advanced/Non-invention); B29C55/12 B32B27/00 B32B27/32 C08F10/00 C08F210/00 C08F4/00 C08F8/00 C08J5/18 C08L23/00 (Core/Invention); B32B27/00 C08F4/00 C08L23/00 (Core/Non-invention)

International (IPC 1-7): B29C55/12 B29K23/00 B29L7/00 B29L9/00 B32B27/00 B32B27/30 B32B27/32 C08F10/00 C08F210/06 C08F210/16 C08F4/64 C08F4/642 C08J5/18 C08L23/10 C08L23/12 C08L23/14 C08L23/16 C08L23/20

CPC: Y10S428/91 C08L23/12 C08F210/06 C08L23/10 C08L23/14 C08L23/142 C08L2205/02 Y10T428/1328 Y10T428/31909 Y10T428/31913

European: C08L23/10 C08L23/12 C08L23/14 C08L23/14A C08L23/14A+B2 M08F210/06 M08L205/02 M08L23/12 M08L23/14 M08L23/14A

US: 428/34.9 428/515 428/516 428/910 525/240 526/348.1 526/348.6

Family:

Publication number	Publication date	Application number	Application date
CA2164461 AA	19960607	CA19952164461	19951205
CA2164461 C	20000808	CA19952164461	19951205
CN1062576 C	20010228	CN19951019053	19951206
CN1139130 A	19970101	CN19951019053	19951206
DE69508357 D1	19990422	DE19956008357	19951206
DE69508357 T2	19991014	DE19956008357T	19951206
DE69508357 T3	20050113	DE19956008357T	19951206
EP0716121 A1	19960612	EP19950308867	19951206
EP0716121 B1	19990317	EP19950308867	19951206
EP0716121 B2	20040609	EP19950308867	19951206
JP2004339523 A2	20041202	JP20040225837	20040802
JP2007002266 A2	20070111	JP20060276736	20061010
JP3491849 B2	20040126	JP19950044440	19950303
JP3491850 B2	20040126	JP19950047471	19950307
JP3628772 B2	20050316	JP19950260162	19951006
JP3895341 B2	20070322	JP20040225837	19951006
JP3944750 B2	20070718	JP20060276736	20061010
JP8208909 A2	19960813	JP19950260162	19951006
JP8238731 A2	19960917	JP19950044440	19950303
JP8238733 A2	19960917	JP19950047471	19950307
KR100190429 B1	19990601	KR19950046958	19951206
KR19960022760 A	19960718	KR19950046958	19951206
US5998039 A	19991207	US19970890360	19970709

Priority:

JP19940302539	19941206	JP19950044440	19950303	JP19950260162	19951006
CA19952164461	19951205	CA19952164461	19951205	JP19950047471	19950307
US19970890360	19970709	US19950568239	19951206	JP20060276736	20061010
JP20040225837	20040802				

Probable Assignee: MITSUI CHEMICALS INC

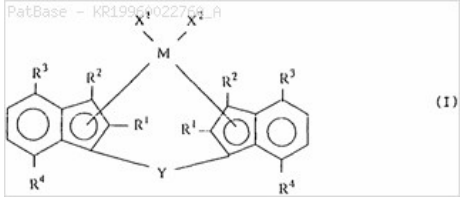
Assignee(s): (std): MITSUI CHEMICALS ; MITSUI CHEMICALS INC ; MITSUT PETROCHEMICAL IND LTD ; MITSUI PETROCHEMICAL IND

Assignee(s): MITSUI PETROCHEMICAL IND LTD ; MITSUT PETROCHEMICAL INDUSTRIES LTD ; MITSUI PETROCHEM IND LTD ; MITSUI PETROCHEMICAL INDUSTRIES LTD ; MITSUI CHEMICALS INC TOKIO TOKYO JP ; TANAKA YASUO ; SUGI MASAHIRO ; TANIZAKI TATSUYA ; TSUTSUI TOSHIYUKI ; HASHIMOTO MIKIO ; KAGAMI MAMORU

Inventor(s): (std): HASHIMOTO ; HASHIMOTO MIKIO ; MASAHIRO SUGI ; SUGI MASAHIRO ; TANAKA YASUO ; TANIZAKI TATSUYA ; TATEO ; TATEO HASHIMOTO ; TATSUO TANISAKI ; TSUTSUI TOSHIYUKI ; KAGAMI MAMORU

Inventor(s): KAGAMI MAMORU C OMITSUI PETROCHEMICAL IND LTD ; KAGAMI MAMORU C OMITSUI PETROCHEMICAL IND LTD ICHI ; TSUTSUI TOSHIYUKI C OMITSUI PETROCHEMICAL KUGA ; TSUTSUI TOSHIYUKI C OMITSUI PETROCHEMICAL KUGA GUN ; TSUTSUI TOSHIYUKI C OMITSUI PETROCHEMICAL KUGA GUN YAMAGUCHI 740 JP ; TSUTSUI T ; TANIZAKI TATSUYA C O MITSUI PETROCHEMICAL KUGA ; TANIZAKI TATSUYA C O MITSUI PETROCHEMICAL KUGA GUN ; TANIZAKI TATSUYA C O MITSUI PETROCHEMICAL KUGA GUN YAMAGUCHI 740 JP ; TANAKA YASUO C OMITSUI PETROCHEMICAL IND LTD ; TANAKA YASUO C OMITSUI PETROCHEMICAL IND LTD ICHIH ; TANAKA YASUO C OMITSUI PETROCHEMICAL IND LTD ; TANISAKI TATSUO ; SUGI MASAHIRO C O MITSUI PETROCHEMICAL ; SUGI MASAHIRO C O MITSUI PETROCHEMICAL ICHIHARA SH ; SUGI MASAHIRO C O MITSUI PETROCHEMICAL ICHIHARA SHI CHIBA 299 01 JP ; SUGI MASAHIRO T ; HASHIMOTO MIKIO C O MITSUI PETROCHEMICAL KUGA ; HASHIMOTO MIKIO C O MITSUI PETROCHEMICAL KUGA GUN ; HASHIMOTO MIKIO C O MITSUI PETROCHEMICAL KUGA GUN YAMAGUCHI 740 JP ; HASHIMOTO TATEO

Designated states: DE FR GB IT NL

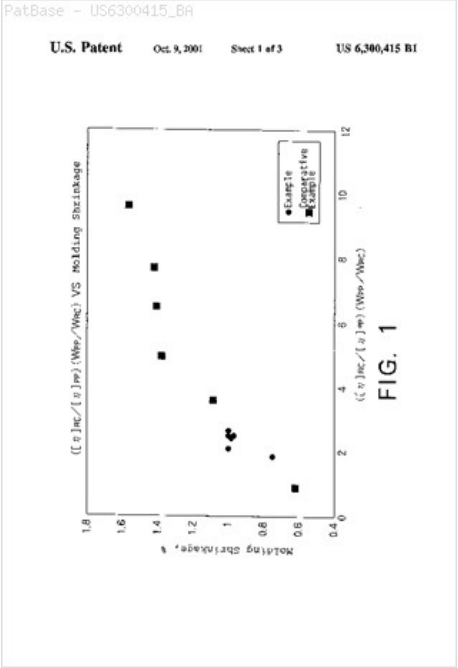


Title: Propylene composition, process for preparing the same, polypropylene composition, and molded articles

Abstract: Source: US6300415B A polypropylene composition for the production of various molded articles which are excellent in moldability, mold shrinkage factor on molding, rigidity, flexibility, impact resistance, in particular low-temperature impact resistance, transparency, gloss, stress-whitening resistance, and the balance thereof; various molded articles having the above properties; a propylene composition which is suitable for a base resin for the polypropylene composition; and a process for the production thereof. The propylene composition comprises a propylene homopolymer and a propylene-ethylene copolymer, the intrinsic viscosity of the copolymer ([eta]RC) is in the range of 1.7 to 2.8 dl/g, the intrinsic viscosity ratio of the homopolymer to the copolymer ([eta]RC/[eta]pp) is in the range of 0.7 to 1.2 and a product $[(WPP/WRC) \times ([eta]RC/[eta]pp)]$ of the weight ratio (WPP/WRC) of the homopolymer to the copolymer and the intrinsic viscosity ratio thereof is in the range of 1.0 to 3.0.

Classifications:

International (IPC 8-9): B29C45/00 B29C47/00 B32B27/32 B65D1/00 B65D1/02 B65D1/09 C08F110/06 C08F210/00 C08F210/06 C08F255/02 C08F297/08 C08J5/00 C08J5/18 C08K3/34 C08K5/098 C08K5/103 C08K5/13 C08K5/14 C08K5/49 C08L23/06 C08L23/08 C08L23/10 C08L23/12 C08L23/16 C08L23/20 C08L43/04 C08L51/06 C08L53/00 (Advanced/Invention); B29K23/00 B29L7/00 C08F110/06 C08F210/06 C08F297/08 C08J5/00 C08L23/08 C08L23/12 C08L23/16 (Advanced/Non-invention); B29C45/00 B29C47/00 B32B27/32 B65D1/00 B65D1/02 B65D1/09 C08F297/00 C08J5/00 C08J5/18 C08K3/00 C08K5/00 C08L23/00 C08L43/00 (Core/Invention)
International (IPC 1-7): B29C45/00 B29C47/00 B29K23/00 B29K23/00 B29L7/00 B32B27/32 B65D1/02 B65D1/09 C08F210/00 C08F297/08 C08J5/00 C08J5/18 C08K3/34 C08K5/098 C08K5/103 C08K5/13 C08K5/14 C08K5/49 C08L23/06 C08L23/08 C08L23/10 C08L23/12 C08L23/16 C08L23/20 C08L43/04 C08L53/00
CPC: C08J5/18 B32B27/32 C08F110/06 C08F210/06 C08F255/02 C08F297/083 C08J2323/10 C08L23/0815 C08L23/10 C08L23/16 C08L51/06 C08L53/00
European: B32B27/32 C08F255/02 C08F297/08B C08J5/18 C08L23/10 C08L51/06 C08L53/00 M08F110/06 M08F210/06 M08J323/10 M08L23/08A1 M08L23/16 M08L23/16B M08L51/06 M08L53/00
US: 264/165 264/239 525/191 525/197 525/240



Family:

Publication number	Publication date	Application number	Application date
AT215571 E	20020415	AT19960939302T	19961122
AU199676387 A1	19970611	AU19960076387	19961122
BRPI9611825 A	19990713	BR1996P11825	19961122
CN1109715 C	20030528	CN19961099321	19961122
CN1205726 A	19990120	CN19961099321	19961122
DE69620440 D1	20020508	DE19966020440	19961122
DE69620440 T2	20020829	DE19966020440T	19961122
DE69620440 T3	20100520	DE19966020440T	19961122
EP0863183 A1	19980909	EP19960939302	19961122
EP0863183 A4	19991229	EP19960939302	19961122
EP0863183 B1	20020403	EP19960939302	19961122
EP0863183 B2	20080528	EP19960939302	19961122
JP2002249626 A2	20020906	JP20010353858	20011119
JP2003246900 A2	20030905	JP20030017213	20030127
JP3470337 B2	20031125	JP19970519600T	19961122
JP3800181 B2	20060726	JP20030017213	20030127
JP3852326 B2	20061129	JP20010353858	19961122
JP3852326 B2	20061129	JP20010353858	20011119
KR100277378 B1	20010115	KR19980703853	19980522
KR19990071578 A	19990927	KR19980703853	19980522
TW486501 B	20020511	TW19960114348	19961121
US6300415 BA	20011009	US19980068949	19980814
WO9719135 A1	19970529	WO1996JP03433	19961122

Priority:

JP19950305292 19951124	JP19960035639 19960129	JP19960106365 19960402
WO1996JP03433 19961122	JP20010353858 20011119	JP19960174178 19960613
JP19960181141 19960621	JP19960209030 19960718	JP19960209031 19960718
JP20030017213 20030127		

Probable Assignee: JNC CORP

Assignee(s): (std): KAWANO SHOUJI ; KIMURA KAZUHIRO ; OKAYAMA CHIKASHI ; NAKASHIMA TAKANORI ; KIMURA MASAMI ; WAKATA MAYUMI ; YAMAMOTO TOSHIKI ; SUGIMOTO MASATAKA ; MOCHIZUKI YASUHIRO ; SAITO NORIAKI ; YOKOTA JUNICHIRO ; NAKAGAWA YASUHIKO ; CHISSO CORP ; GOUDA KUNIO ; ISHII HIROHISA

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Inventor(s): KIMURA KAZUHIRO AND ; JUNICHI YOKOTA ; TAKANORI KIMURA

Agent(s): GILLE HRABAL STRUCK NEIDLEIN PROP ROOS

Designated states: AL AM AT AU AZ BB BE BF BG BJ BR BY CA CF CG CH CI CM CN CZ DE DK EE ES FI FR GA GB GE GN GR HU IE IL IS IT JP KE KG KR KZ LI LK LR LS LT LU LV MC MD MG MK ML MN MR MW MX NE NL NO NZ PL PT RO RU SD SE SG SI SK SN SZ TD TG TJ TM TR TT UA UG US UZ VN

Title: EMBRITTLEMENT-RESISTANT POLYOLEFIN COMPOSITION AND FLEXIBLE ARTICLES THEREFROM

Abstract: Source: US5929147A An embrittlement-resistant polyolefin composition, including: (a) at least 80 percent by weight, based on the total weight of the polyolefin composition, of a crystalline polymer comprising either a propylene homopolymer having an isotactic index greater than 90 or a random copolymer of propylene and either ethylene or C4-C10 1-olefins, (b) an elastomeric copolymer of ethylene and either propylene or butene-1, where the elastomeric copolymer is present in an amount sufficient to enhance the flexibility of the polyolefin composition, without adversely affecting the clarity of the polyolefin composition, and where the polyolefin composition has a heat distortion temperature of at least 60 DEG C. Optional components include a stabilizing amount of a hindered amine light stabilizer, an acid neutralizing agent, and a sorbitol-based compound. The composition may be used to manufacture medical articles and food packaging material which must be sterilized, either by irradiation or by autoclaving.

Classifications:

International (IPC 8-9): A61L2/08 A61M5/31 C08K5/00 C08K5/103 C08K5/3435 C08K5/54 C08K5/5419 C08K5/544 C08L23/08 C08L23/10 C08L23/16 (Advanced/Invention);

C08L23/08 C08L23/16 (Advanced/Non-invention);

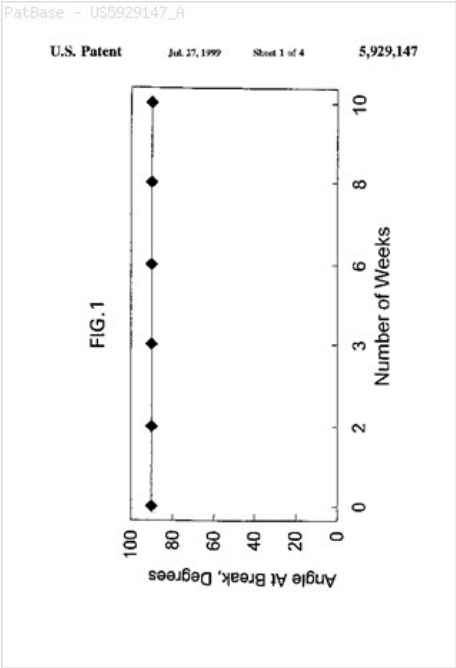
A61L2/08 A61M5/31 C08K5/00 C08L23/00 (Core/Invention)

International (IPC 1-7): A61L2/08 C08K5/103 C08K5/3435 C08K5/54 C08L23/08 C08L23/10 C08L23/12

CPC: Y10T428/139 C08K5/0008 C08K5/5442 C08L23/0815 C08L23/10 C08L23/16

European: C08K5/00P C08K5/544B C08L23/10 M08L23/08A1 M08L23/16

US: 428/36.9 524/102 524/174 524/262 524/265 524/318 524/334 524/341 524/345 524/349 524/351 524/352 524/394 524/436 524/437 524/444 524/579 524/99 525/240 604/187 604/218 604/38 606/151 606/205



Family:

Publication number	Publication date	Application number	Application date
CA2207880 AA	19971218	CA19972207880	19970617
CA2207880 C	20031209	CA19972207880	19970617
DE69706100 D1	20010920	DE19976006100	19970614
DE69706100 T2	20020620	DE19976006100T	19970614
DK0814127 T3	20011008	DK19970109710T	19970614
EP0814127 A1	19971229	EP19970109710	19970614
EP0814127 B1	20010816	EP19970109710	19970614
ES2159794 T3	20011016	ES19970109710T	19970614
JP10120847 A2	19980512	JP19970161080	19970618
JP2007051294 A2	20070301	JP20060241555	20060906
JP4267087 B2	20090527	JP19970161080	19970618
MX9704484 A1	19971231	MX19970004484	19970617
US5929147 A	19990727	US19960665785	19960618

Priority:

US19960665785 19960618 CA19972207880 19970617 JP19970161080 19970618

Probable Assignee: MONTELL NORTH AMERICA INC

Assignee(s): (std): MONTELL NORTH AMERICA INC ; BASELL NORTH AMERICA INC

Assignee(s): BASELL NORTH AMERICA INC WILMINGTON ; MONTELL NORTH AMERICA INC WILMINGTON ; O NEAL THOMAS J ; PIERICK DAVID E

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Designated states: BE DE DK ES FI FR GB IT NL

Title: POLYPROPYLENE BLOCK COPOLYMERS AND CONTAINERS MADE THEREFROM

Abstract: Source: US6159567A A propylene block copolymer comprising (A) 60-90 weight percent, based on the total amount of the block copolymer, of a first block of a propylene polymer, optionally containing a small amount of copolymerised ethylene, (B) 40-10 weight percent, based on the total amount of the block copolymer, of a second block of an ethylene-propylene copolymer containing 1-10 weight percent of ethylene, and the total ethylene content of the block copolymer being within the range of 0.1-2.5 percent. The weight process for the manufacturing of the propylene block copolymer and use of it for the manufacture of bioriented bottles.

Classifications:

International (IPC 8-9): C08F297/08 C08L53/00 (Advanced/Invention);
C08F297/00 C08L53/00 (Core/Invention)

International (IPC 1-7): B29C45/00 B29C55/28 B65D23/00 C08F293/00 C08F297/08 C08L53/00

CPC: Y10T428/1352 Y10T428/139 Y10T428/1397 C08L53/00 C08F297/083 Y10T428/31931 Y10T428/31938

European: C08F297/08B C08L53/00

US: 264/532 264/537 428/35.7 428/36.9 428/36.92 428/521 428/523 428/542.8 525/323

Family:

Publication number	Publication date	Application number	Application date
DE69813347 D1	20030522	DE19986013347	19980214
DE69813347 T2	20031106	DE19986013347T	19980214
DE69813347 T3	20110519	DE19986013347T	19980214
EP0860457 A1	19980826	EP19980200474	19980214
EP0860457 B1	20030416	EP19980200474	19980214
EP0860457 B2	20110126	EP19980200474	19980214
GB2322376 A1	19980826	GB19970003841	19970225
GB2322376 B2	20001129	GB19970003841	19970225
GB9703841 A0	19970416	GB19970003841	19970225
US6159567 A	20001212	US19980024123	19980217

Priority:

GB19970003841 19970225

Probable Assignee: INEOS MFG BELGIUM

Assignee(s): (std): SOLVAY ; POLYPROPYLENE BELGIUM NV ; INEOS MFG BELGIUM NV ; SOLVAY POLYOLEFINS EUROP BELGI ; POLYPROPYLENE BELGIUM N V ANTW

Assignee(s): INNOVENE MFG ; O AND D USA LLC ; SOLVAY POLYOLEFINS EUROPE BELGIUM ; SOLVAY POLYOLEFINS EUROPE BELGIUM SOC ANONYME ; SOLVAY POLYOLEFINS EUROPE BELGIUM SOCIUTU ANONYME ; SOLVAY POLYOLEFINS EUROPE BELGIUM SOCIETE ANONYME ; SOLVAY POLYOLEFINS EUROPE BELGIUM (SOCIETE ANONYME ; SOLVAY POLYOLEFINS EUROPE BELGIUM (SOCIETE ANONYME) ; POLYPROPYLENE BELGIUM (NAAMLOZE VENNOOTSCHAP) ; INEOS MFG BELGIUM ; INNOVENE MFG BELGIUM ; POLYPROPYLENE BELGIUM NV ANTWERPEN ; POLYPROPYLENE BELGIUM SCHELDELAAN ; POLYPROPYLENE BELGIUM ; POLYPROPYLENE BELGIUM NAAMLOZE VENNOOTSCHAP ; POLYPROPYLENE BELGIUM N V ANTWERPEN ; BARCLAYS BANK PLC ; BARCLAYS BANK PLC (IN ITS CAPACITY SECURITY TRUSTE ; BARCLAYS BANK PLC (IN ITS CAPACITY SECURITY TRUSTEE FOR ITSELF AND OTHER SECURED PARTIES) AS ; BARCLAYS BANK PLC IN ITS CAPACITY SECURITY TRUSTEE ; BARCLAYS BANK PLC IN ITS CAPACITY SECURITY TRUSTEE FOR ITSELF AND OTHER SECURED PARTIES AS ; INEOS MANUFACTURING BELGIUM NV ; INEOS MFG

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Inventor(s): RAYMOND MIKIELSKI ; EMMANUEL DELAITE ; JEAN CHARLIER

Agent(s): SMITH JULIAN PHILIP HOWARD

Designated states: BE DE FR GB