



Moplen HP2981

Polypropylene, Homopolymer

Product Description

Moplen HP2981 is a polypropylene homopolymer developed for the production of transparent cast film. It is formulated with slip agent. Films made with Moplen HP2981 show very high transparency, a high gloss and a good printability after corona treatment. Main applications are the production of shopping bags and packaging of snacks, pasta, bakery products, books, blankets, hosiery and shirts.

For regulatory information please refer to Moplen HP2981 Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Availability	Europe
Processing Methods	Cast Film
Features	High Clarity, High Gloss , Homopolymer, Excellent Printability , Unspecified Slip
Typical Customer Applications	Cast Film, Film, Food Packaging Film, Textile Packaging Film

Typical Properties	Method	Value	Unit
Mechanical			
Tensile Strength @ Brk MD	ASTM D 882	32.0	MPa
Tensile Strength @ Yld MD	ASTM D 882	21.0	MPa
Elongation at break MD	ASTM D 882	610	%
Optical			
Haze (100 µ)	ASTM D 1003	1.5	%
Gloss (45°, 100 µ)	ASTM D 2457	88	
Film			
Coefficient of Friction	ASTM D 1894		
		0.25	
		0.30	
Secant modulus MD	ASTM D 882	800	MPa

Additional Properties

Typical Film Properties:
 Gloss 45°, ASTM D 2457, 100 µm: 87.9
 Haze, ASTM D 1003, 100 µm: 1.5%
 Tensile Young Modulus, ASTM D 882, 25 mm/min, 50 µm: 800 MPa
 Stress at Yield, ASTM D 882, 500 mm/min, 50µm: 21 MPa
 Elongation at Yield, ASTM D882, 500 mm/min, 50 µm: 5%
 Stress at Break, ASTM D 882, 500 mm/min, 50 µm: 32 MPa
 Elongation at Break, ASTM D 882, 500 mm/min, 50 µm: 610 %
 Coefficient of friction, ASTM D 1894, Static, 50 µm: 0.3
 Coefficient of friction, ASTM D 1894, Dynamic, 50 µm: 0.25

Notes

Typical properties; not to be construed as specifications.

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LyondellBasell markets this product through the following entities:

- Equistar Chemicals, LP
- Basell Sales & Marketing Company B.V.
- Basell Asia Pacific Limited
- Basell International Trading FZE
- LyondellBasell Australia Pty Ltd

For the contact details of the LyondellBasell company selling this product in your country, please visit <http://www.lyb.com/>.

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This product(s) may not be used in:

- any U.S. FDA Class I, Health Canada Class I, and/or European Union Class I Medical Devices, without prior notification to Seller for each specific product and application; or
- the manufacture of any of the following, without prior written approval by Seller for each specific product and application: (1) U.S. FDA Class II, Health Canada Class II or Class III, and/or European

Union Class II Medical Devices; (2) film, overwrap and/or product packaging that is considered a part or component of one of the aforementioned Medical Devices; (3) packaging in direct contact with a pharmaceutical active ingredient and/or dosage form that is intended for inhalation, injection, intravenous, nasal, ophthalmic (eye), digestive, or topical (skin) administration; (4) tobacco related products and applications; (5) electronic cigarettes and similar devices; and (6) pressure pipe or fittings that are considered a part or component of a nuclear reactor.

(iii) Additionally, the product(s) may not be used in: (1) U.S. FDA Class III, Health Canada Class IV, and/or European Class III Medical Devices; (2) applications involving permanent implantation into the body; (3) life-sustaining medical applications; and (4) lead, asbestos or MTBE related applications.

All references to U.S. FDA, Health Canada, and European Union regulations include another country's equivalent regulatory classification.

Users should review the applicable Material Safety Data Sheet before handling the product.

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