

## Moplen RP220M

### Polypropylene, Random Copolymer

#### Product Description

"Moplen" RP220M is a controlled rheology medium modified propylene random copolymer for manufacturing high transparent cast films. It contains no slip or antiblocking agents. It offers good processability, excellent clarity and gloss and exhibits very good heat weldability. Main applications are packaging of foodstuffs, packaging of stationary, shirts and hosiery. It is also suitable for production of stationary folders.

"Moplen" RP220M is suitable for food contact.

For regulatory information please refer to "Moplen" RP220M Product Stewardship Bulletin ( PSB ).

#### Product Characteristics

<b>Status</b>	Commercial: Active
<b>Test Method used</b>	ISO ASTM
<b>Availability</b>	Europe, Africa-Middle East
<b>Processing Methods</b>	Cast Film
<b>Features</b>	High Clarity, Controlled Rheology, Random Copolymer, High Gloss , Good Processability, Weldable
<b>Typical Customer Applications</b>	Cast Film, Food Packaging Film, Stationery Film, Textile Packaging Film

Typical Properties	Method	Value	Unit
<b>Physical</b>			
Density	ISO 1183	0.900	g/cm <sup>3</sup>
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	8.0	g/10 min
<b>Mechanical</b>			
Tensile Stress at Break	ISO 527-1, -2	26	MPa
Tensile Stress at Yield	ISO 527-1, -2	23.0	MPa
Tensile Strain at Break	ISO 527-1, -2	>500	%
Tensile Strain at Yield	ISO 527-1, -2	12	%
Flexural modulus	ISO 178	700	MPa
<b>Impact</b>			
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		10	kJ/m <sup>2</sup>
(0 °C, Type 1, Edgewise, Notch A)		2.5	kJ/m <sup>2</sup>
<b>Thermal</b>			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	60.0	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	125	°C

#### Additional Properties

Typical film properties of laboratory casting line:

Gloss 45°, ISO 2813, 50 µm: 85

Haze, ASTM D 1003, 50 µm: <1%

Tensile modulus, MA 18068, 50 µm, MD/TD, 500-450 MPa

Stress at break, MA 18068, 500 mm/min, 50 µm, MD/TD, 37-34 MPa

Elongation at break, MA 18068, 500 mm/min, 50 µm, MD/TD, 850-900%

Coefficient of friction, ASTM D1894, Dynamic: >1

Dart Impact strength, MA17106, 500 g.

#### 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:

(i) 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

(ii) 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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