



## 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.