



Moplen RP225M

Polypropylene, Random Copolymer

Product Description

"Moplen" RP225M is a controlled rheology medium modified propylene random copolymer for manufacturing high transparent cast films. The product contains slip and anti-block 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" RP225M is suitable for food contact.

For regulatory information please refer to "Moplen" RP225M Product Stewardship Bulletin (PSB).

Product Characteristics

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

Typical Properties	Method	Value	Unit
Physical			
Density	ISO 1183	0.900	g/cm ³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	8.0	g/10 min
Mechanical			
Tensile Modulus (1 mm/min)	ISO 527-1, -2	700	MPa
Tensile Stress at Yield (50 mm/min)	ISO 527-1, -2	23.0	MPa
Tensile Strain at Yield (50 mm/min)	ISO 527-1, -2	12	%
Impact			
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		9.0	kJ/m ²
(0 °C, Type 1, Edgewise, Notch A)		1.5	kJ/m ²
Thermal			
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	120	°C

Additional Properties

Typical film properties of laboratory casting line:

Gloss 45°, ASTM D 2457, 50 µm: 89

Haze, ASTM D 1003, 50 µm: <1.5%

Tensile Young modulus, ASTM D 882, 25 mm/min, 50 µm: 560 MPa

Stress at Yield, ASTM D 882, 500 mm/min, 50 µm, 19.4 MPa

Elongation at Yield, ASTM D 882, 500 mm/min, 50 µm: 7.6%

Stress at break, ASTM D 882, 500 mm/min, 50 µm, 38 MPa

Elongation at break, ASTM D 882, 500 mm/min, 50 µm: 740%

Coefficient of friction, ASTM D 1894, Static: 0.2

Coefficient of friction, ASTM D 1894, Dynamic: 0.2

Notes

Typical properties; not to be construed as specifications.