Moplen RP316M

Polypropylene, Random Copolymer

Product Description

"Moplen" RP316M is a slightly modified propylene random copolymer for manufacturing high transparent cast films. The product contains slip, antiblock and antielectrostatic agents. It offers excellent processability, high clarity and gloss and good heat weldability. Main applications are packaging of foodstuffs, packaging of books and stationary.
"Moplen" RP316M is suitable for food contact.
For regulatory information please refer to "Moplen" RP316M 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 , Antistatic, High Clarity, 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/cm³
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	1100	MPa
Tensile Stress at Yield (50 mm/min)	ISO 527-1, -2	28.0	MPa
Tensile Strain at Break (50 mm/min)	ISO 527-1, -2	520	%
Tensile Strain at Yield (50 mm/min)	ISO 527-1, -2	11	%
Impact			
Charpy notched impact strength	ISO 179		
(23 °C, Type 1, Edgewise, Notch A)		3.4	kJ/m²
(0 °C, Type 1, Edgewise, Notch A)		1.4	kJ/m²
Hardness			
Shore hardness (Shore D)	ISO 868	67	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	72.0	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	135	°C

Additional Properties

Typical film properties of laboratory casting line:
Gloss 45°, ASTM D 2457, 50 µm: 88
Haze, ASTM D 1003, 50 µm: <1.5%
Tensile Young modulus, ASTM D 882, 25 mm/min, 50 µm: 780 MPa
Stress at Yield, ASTM D 882, 500 mm/min, 50 µm, 20 MPa
Elongation at Yield, ASTM D 882, 500 mm/min, 50 µm: 6.3%
Stress at break, ASTM D 882, 500 mm/min, 50 µm, 40 MPa
Elongation at break, ASTM D 882, 500 mm/min, 50 µm: 730%
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.