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
Physical			
Density	ISO 1183	0.900	g/cm³
Melt flow rate (MFR) (230°C/2.16Kg)	ISO 1133	9.5	g/10 min
Mechanical			
Tensile Modulus	ISO 527-1, -2	1250	MPa
Tensile Stress at Yield	ISO 527-1, -2	30.0	MPa
Tensile Strain at Break	ISO 527-1, -2	570	%
Tensile Strain at Yield	ISO 527-1, -2	11	%
Hardness			
Shore hardness (Shore D)	ISO 868	70	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	85.0	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	153	°C

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