Moplen HP422H

Polypropylene, Homopolymer

Product Description

Moplen HP422H is a modified polypropylene homopolymer designed for the production of BOPP films at very high speed. BOPP films produced with HP422H feature good mechanical properties, excellent barrier against moisture, odours, oxygen, good transparency and gloss. Coextruded films made of *Moplen* HP422H are widely used in the food packaging industry. *Moplen* HP422H does not contain any slip or antistatic agents and it is Calcium Stearate free.

For regulatory information please refer to *Moplen* HP422H Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO ASTM
Availability	Europe, Africa-Middle East
Processing Methods	BOPP
Features	Moisture Barrier, High Clarity, High Gloss , Homopolymer, Low to No Odor
Typical Customer Applications	Barrier Film, BOPP, Film, Food 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	2.0	g/10 min
Mechanical			
Tensile Modulus (1 mm/min)	ISO 527-1, -2	1450	MPa
Tensile Stress at Yield (50 mm/min)	ISO 527-1, -2	34.0	MPa
Tensile Strain at Break (50 mm/min)	ISO 527-1, -2	410	%
Tensile Strain at Yield (50 mm/min)	ISO 527-1, -2	10	%
Hardness			
Shore hardness (Shore D)	ISO 868	70	
Thermal			
Heat deflection temperature B (0.45 MPa) Unannealed	ISO 75B-1, -2	88.0	°C
Vicat softening temperature (A50 (50°C/h 10N))	ISO 306	152	°C

Additional Properties

Typical Film Properties of monolayer film produced on T.M. Long equipment, a laboratory simultaneous film stretcher (7x7@150°C):
Haze, ASTM D 1003, 20 µm: 0.50%
Tensile Tangent Modulus (0-1%), MA 18068, 5 mm/min, 20 µm: 2400 MPa
Stress at Break, MA 18068, 50 mm/min, 20 µm: 116 MPa
Elongation at Break, MA 18068, 50 mm/min, 20 µm: 29%

Notes

Typical properties; not to be construed as specifications.