



Moplen HP421H

Polypropylene, Homopolymer

Product Description

Moplen HP421H is a modified polypropylene homopolymer designed for the production of BOPP films at very high speed. BOPP films produced with HP421H feature good mechanical properties, excellent barrier against moisture, odours, oxygen, and good transparency and gloss. Coextruded films made of Moplen HP421H are widely used in the food packaging industry.

Moplen HP421H is formulated with slip agent and antistatic.

For regulatory information please refer to Moplen HP421H Product Stewardship Bulletin (PSB).

Product Characteristics

Status	Commercial: Active
Test Method used	ISO
Availability	Europe, Africa-Middle East
Processing Methods	BOPP, Double Bubble
Features	Antistatic, Moisture Barrier, High Clarity, High Gloss , Homopolymer, Low to No Odor, Unspecified Slip
Typical Customer Applications	Barrier Film, Film, Food Packaging Film, Surface Protection 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	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):

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.