

Moplen HP421H

Polypropylene Homopolymer

LyondellBasell Industries

Message:

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).

General Information			
Additive	Antistatic property slip agent		
Features	Moisture proof Highlight smoothness Homopolymer Antistatic property The smell is low to none Definition, high Compliance of Food Exposure		
Uses	Bi-axially Oriented Film Films Food packaging		
Forms	Particle		
Processing Method	Film extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	2.0	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Durometer Hardness (Shore D)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1450	MPa	ISO 527-2/1
Tensile Stress (Yield)	34.0	MPa	ISO 527-2/50
Tensile Strain			ISO 527-2/50
Yield	10	%	ISO 527-2/50
Fracture	410	%	ISO 527-2/50
Thermal	Nominal Value	Unit	Test Method

Heat Deflection Temperature (0.45 MPa, Unannealed)	88.0	°C	ISO 75-2/B
Vicat Softening Temperature	152	°C	ISO 306/A50
Additional Information			


Typical Film Properties of monolayer film produced on T.M. Long equipment, a laboratory simultaneous film stretcher:-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%

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