

Moplen HP520H

Polypropylene Homopolymer

LyondellBasell Industries

Message:

Moplen HP520H is a polypropylene homopolymer especially designed for the production of biaxially oriented polypropylene films (BOPP). It contains a general purpose formulation.
Typical applications of Moplen HP520H are film for adhesive tapes and general packaging.
For regulatory information please refer to Moplen HP520H Product Stewardship Bulletin (PSB).

General Information			
Additive	Unspecified Additive		
Features	Food Contact Acceptable		
	Homopolymer		
Uses	Bi-axially Oriented Film		
	Film		
	Food Packaging		
	Packaging		
	Strapping		
	Tape		
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
Shore Hardness (Shore D)	71		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			
Yield	34.0	MPa	ISO 527-2/50
Break	23.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2/50
Yield	12	%	
Break	> 500	%	
Flexural Modulus (23°C)	1450	MPa	ISO 178
Coefficient of Friction ¹ (Dynamic)	0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Tensile Modulus - Tangent (20 µm)	2900	MPa	Internal Method
Tensile Strength - MD ² (Break, 20 µm)	250	MPa	ASTM D882
Tensile Elongation - MD ³ (Break, 20 µm)	90	%	ASTM D882

Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	93.0	°C	ISO 75-2/B
Vicat Softening Temperature	155	°C	ISO 306/A50
Optical	Nominal Value	Unit	Test Method
Gloss ⁴ (45°)	91		Internal Method
Haze ⁵ (20.0 μm)	0.40	%	Internal Method
NOTE			
1.	MTM17029E		
2.	50 mm/min		
3.	50 mm/min		
4.	MA 17021		
5.	MA 17031		

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