

# Moplen HP522H

Polypropylene Homopolymer

LyondellBasell Industries

## Message:

Moplen HP522H is a polypropylene homopolymer designed for the production of biaxially oriented polypropylene films (BOPP). The product is particularly suitable for both plain and coextruded structures for metallization. It does not contain any slip or antiblocking agents and it is Calcium Stearate free. BOPP films made of Moplen HP522H are widely used in the food packaging industry. For regulatory information please refer to Moplen HP522H Product Stewardship Bulletin (PSB).

General Information			
Features	Additive Free		
	Barrier Resin		
	Food Contact Acceptable		
	Homopolymer		
Uses	Bi-axially Oriented Film		
	Film		
	Food Packaging		
Processing Method	Coextrusion		
	Extrusion		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm <sup>3</sup>	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			ISO 527-2/50
Yield	34.0	MPa	
Break, 23°C	23.0	MPa	
Tensile Strain			ISO 527-2/50
Yield	12	%	
Break	> 500	%	
Flexural Modulus (23°C)	1450	MPa	ISO 178
Coefficient of Friction <sup>1</sup> (Dynamic)	0.50		ASTM D1894
Films	Nominal Value	Unit	Test Method
Tensile Modulus - Tangent (20 µm)	2900	MPa	Internal Method
Tensile Strength - MD <sup>2</sup> (Break, 20 µm)	250	MPa	ASTM D882
Tensile Elongation - MD <sup>3</sup> (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 <sup>4</sup> (45°)	91		Internal Method
Haze <sup>5</sup> (50.0 μm)	0.30	%	Internal Method
NOTE			
1.	MTM17029E		
2.	50 mm/min		
3.	50 mm/min		
4.	MA17021		
5.	MA 17031		

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