

Moplen HP420M

Polypropylene Homopolymer

LyondellBasell Industries

Message:

Moplen HP420M is a high flow polypropylene homopolymer designed for the production of biaxially oriented polypropylene films (BOPP) on tubular double bubble lines and cast film. Typical applications are BOPP packaging, laminating film and drinking straws but also packaging foodstuffs such as pasta, snacks, biscuits, bakery products and confectionery, film for packaging for flowers, books stationery, blankets, shirts, knitwear and hosiery. For regulatory information please refer to Moplen HP420M Product Stewardship Bulletin (PSB).

General Information			
Features	Food Contact Acceptable		
	High Flow		
	Homopolymer		
Uses	Bi-axially Oriented Film		
	Drinking Straws		
	Film		
	Food Packaging		
	Laminates		
	Packaging		
	Protective Coatings		
Processing Method	Cast Film		
	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)	8.0	g/10 min	ISO 1133
Mechanical	Nominal Value	Unit	Test Method
Tensile Stress			ISO 527-2
Yield	33.0	MPa	
Break	21.0	MPa	
Tensile Strain			ISO 527-2
Yield	12	%	
Break	> 500	%	
Flexural Modulus	1350	MPa	ISO 178
Coefficient of Friction (Dynamic, Cast Film)	> 1.0		ASTM D1894
Films	Nominal Value	Unit	Test Method
Elastic Modulus - MD ¹ (50 µm, Cast Film)	800	MPa	Internal Method
Elastic Modulus - TD ² (50 µm, Cast Film)	800	MPa	Internal Method

Tensile Strength ³			ASTM D882
MD : Break, 50 μm,Cast Film	50.0	MPa	
TD : Break, 50 μm,Cast Film	45.0	MPa	
Tensile Elongation ⁴			ASTM D882
MD : Break, 50 μm,Cast Film	950	%	
TD : Break, 50 μm,Cast Film	1000	%	
Dart Drop Impact ⁵	250	g	Internal Method
Thermal	Nominal Value	Unit	Test Method
Heat Deflection Temperature (0.45 MPa, Unannealed)	85.0	°C	ISO 75-2/B
Vicat Softening Temperature	153	°C	ISO 306/A50
Optical	Nominal Value	Unit	Test Method
Gloss ⁶ (45°, Cast Film)	91		Internal Method
Haze ⁷ (50.0 μm, Cast Film)	3.8	%	Internal Method
NOTE			
1.	MA 18068		
2.	MA 18068		
3.	500 mm/min		
4.	500 mm/min		
5.	MA17106		
6.	MA 17021		
7.	MA 17031		

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