

Moplen HP2981

Polypropylene Homopolymer

LyondellBasell Industries

Message:

Moplen HP2981 is a polypropylene homopolymer developed for the production of transparent cast film. It is formulated with slip agent. Films made with Moplen HP2981 show very high transparency, a high gloss and a good printability after corona treatment. Main applications are the production of shopping bags and packaging of snacks, pasta, bakery products, books, blankets, hosiery and shirts. For regulatory information please refer to Moplen HP2981 Product Stewardship Bulletin (PSB).

General Information			
Additive	Slip		
Features	Excellent Printability		
	High Clarity		
	High Gloss		
	Homopolymer		
	Slip		
Uses	Bags		
	Cast Film		
	Film		
	Food Packaging		
	Packaging		
Processing Method	Cast Film		
Physical	Nominal Value	Unit	Test Method
Density	0.900	g/cm ³	ISO 1183
Melt Mass-Flow Rate (MFR) (230°C/2.16 kg)	9.5	g/10 min	ISO 1133
Hardness	Nominal Value	Unit	Test Method
Shore Hardness (Shore D)	70		ISO 868
Mechanical	Nominal Value	Unit	Test Method
Tensile Modulus	1250	MPa	ISO 527-2
Tensile Stress (Yield)	30.0	MPa	ISO 527-2
Tensile Strain			ISO 527-2
Yield	11	%	
Break	570	%	
Coefficient of Friction			ASTM D1894
Dynamic	0.25		
Static	0.30		
Films	Nominal Value	Unit	Test Method
Secant Modulus - MD	800	MPa	ASTM D882

Tensile Strength - MD			ASTM D882
Yield	21.0	MPa	
Break	32.0	MPa	
Tensile Elongation - MD			ASTM D882
Yield	5.0	%	
Break	610	%	
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 (45°, 100 μm)	88		ASTM D2457
Haze (100 μm)	1.5	%	ASTM D1003

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