

LyondellBasell Moplen HP400N Polypropylene Homopolymer

Category : Polymer , Thermoplastic , Polypropylene (PP) , Polypropylene, Molded

Material Notes:

Description: HP400N is a high flow homopolymer with a conventional molecular weight distribution and is formulated with a general-purpose additive package. HP400N is designed for injection molding applications where ease of flow is important. It may also be used in conjunction with selected fillers. All ingredients in HP400N meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada).

Uses: Medical applications, packaging, containers Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Moplen-HP400N-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D792 & ISO 1183
Melt Flow	11 g/10 min	11 g/10 min	ISO 1183
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	12 g/10 min	12 g/10 min	Condition L; ASTM D1238
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	93	93	ASTM D 785
Hardness, Shore D	73	73	ISO 868
Tensile Strength, Yield	32.0 MPa	4640 psi	ISO 527-1, -2
	35.2 MPa	5100 psi	ASTM D 638
Elongation at Yield	9.0 %	9.0 %	ASTM D 638
Flexural Modulus	1.40 GPa	203 ksi	ISO 178
	1.59 GPa	230 ksi	1% Secant, 0.05 in/min; ASTM D790
Izod Impact, Notched	0.320 J/cm	0.600 ft-lb/in	73°F; ASTM D256
Izod Impact, Notched (ISO)	2.50 kJ/m ²	1.19 ft-lb/in ²	Type 1, Notch A; ISO 180

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	93.3 °C	200 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	51.1 °C	124 °F	Unannealed; ISO 75A-1, -2

Thermal Properties	Metric	English	Comments
UL RTI, Electrical	221 Â°C	430 Â°F	0.028 in; UL 746
UL RTI, Mechanical with Impact	221 Â°C	430 Â°F	0.028 in; UL 746
UL RTI, Mechanical without Impact	221 Â°C	430 Â°F	0.028 in; UL 746
Flammability, UL94	HB @Thickness 0.711 mm	HB @Thickness 0.0280 in	NC

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