

LyondellBasell Moplen HP400L Polypropylene Homopolymer

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

Material Notes:

Description: All ingredients in HP400L meet the chemical registration requirements of TSCA (U.S.) and DSL (Canada). Uses: Toys, containers, lids, medical applications, closure caps. Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Moplen-HP400L-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.900 g/cc	0.0325 lb/in ³	ASTM D792 & ISO 1183
Melt Flow	5.5 g/10 min	5.5 g/10 min	ISO 1133
	@Load 2.16 kg, Temperature 230 °C	@Load 4.76 lb, Temperature 446 °F	
	6.0 g/10 min	6.0 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	89	89	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	10 %	10 %	ASTM D 638
Flexural Modulus	1.59 GPa	230 ksi	1% Secant, 0.05 in/min; ASTM D790
Izod Impact, Notched	0.427 J/cm	0.800 ft-lb/in	73 °F; ASTM D256
	0.763 J/cm	1.43 ft-lb/in	73 °F, Type 1, Notch A; ISO 180
Izod Impact, Notched (ISO)	3.00 kJ/m ²	1.43 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
Vicat Softening Point	155 °C	311 °F	Method A; ISO 306

UL RTI Electrical Thermal Properties	221 Â°C Metric	430 Â°F English	0.028 in; UL 746 Comments
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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