

LyondellBasell Hifax[®],^ç AA56H Polypropylene Homopolymer

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

Material Notes:

Description: Hifax[®],^ç AA56H medium high melt flow, 1,400 MPa flexural modulus, UL 94 V-2 flame retardant polypropylene homopolymer resin has an excellent combination of properties and processability. It was designed for applications that require flame and heat resistance, along with good electrical properties and surface quality. Uses: Appliances, electrical parts, household goods
Information provided by Basell.

Order this product through the following link:

http://www.lookpolymers.com/polymer_LyondellBasell-Hifax-AA56H-Polypropylene-Homopolymer.php

Physical Properties	Metric	English	Comments
Density	0.932 g/cc	0.0337 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.017 cm/cm	0.017 in/in	ASTM D955
Melt Flow	12 g/10 min @Load 2.16 kg, Temperature 230 °C	12 g/10 min @Load 4.76 lb, Temperature 446 °F	Condition L; ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	97	97	ASTM D 785
Tensile Strength at Break	29.0 MPa	4200 psi	ASTM D 638
Tensile Strength, Yield	32.0 MPa	4640 psi	ASTM D 638
Elongation at Break	250 %	250 %	ASTM D 638
Flexural Modulus	1.40 GPa	203 ksi	1% Secant, 0.05 in/min; ASTM D790
Izod Impact, Notched	0.689 J/cm	1.29 ft-lb/in	73°F; ASTM D256
Gardner Impact	2.00 J @Temperature -30.0 °C	1.47 ft-lb @Temperature -22.0 °F	ASTM D3029, tested in accordance with ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	104 °C	219 °F	Unannealed; ASTM D648
UL RTI, Electrical	115 °C	239 °F	0.118 in; UL 746
UL RTI, Mechanical with Impact	115 °C	239 °F	0.118 in; UL 746
UL RTI, Mechanical without Impact	115 °C	239 °F	0.118 in; UL 746

Flammability III 94 Thermal Properties	V-2 Metric	V-2 English	0.9591 in Comments
Oxygen Index	26 %	26 %	ASTM D2863
Shrinkage	1.7 %	1.7 %	Tool, 100x150x3.2 mm Injection Molded Plaque; Basell Test Method

Electrical Properties	Metric	English	Comments
Volume Resistivity	7.60e+16 ohm-cm	7.60e+16 ohm-cm	ASTM D257
Dielectric Strength	42.9 kV/mm	1090 kV/in	ASTM D149
Arc Resistance	88 sec	88 sec	ASTM D495

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