

Ravago Manufacturing Americas Hylex® P1010G20 HB Polycarbonate, 20% Fiberglass Reinforced

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, 20% Glass Filled

Material Notes:

Information provided by Ravago.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Ravago-Manufacturing-Americas-Hylex-P1010G20-HB-Polycarbonate-20-Fiberglass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.35 g/cc	1.35 g/cc	ASTM D792
Water Absorption	0.13 %	0.13 %	24-Hr Immersion; ASTM D570
Linear Mold Shrinkage, Flow	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
Melt Flow	5.0 - 9.0 g/10 min @Load 1.20 kg, Temperature 300 °C	5.0 - 9.0 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	91	91	ASTM D785
Tensile Strength, Yield	110 MPa	16000 psi	ASTM D638
Elongation at Yield	5.0 %	5.0 %	ASTM D638
Flexural Strength	138 MPa	20000 psi	ASTM D790
Flexural Modulus	5.172 GPa	750.1 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Thickness 3.17 mm, Temperature 22.8 °C	2.00 ft-lb/in @Thickness 0.125 in, Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	149 °C	300 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	146 °C	295 °F	Unannealed; ASTM D648
Vicat Softening Point	166 °C	331 °F	ASTM D1525
Flammability, UL94	HB @Thickness 1.50 mm	HB @Thickness 0.0591 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	4.00e+16 ohm-cm	4.00e+16 ohm-cm	ASTM D257
Dielectric Strength	17.7 kV/mm	450 kV/in	in air; ASTM D149
	@Thickness 3.17 mm	@Thickness 0.125 in	
Arc Resistance	120 sec	120 sec	ASTM D495

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