

Entec Hylex® P1017L1 HB Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Available in North America Additive: Mold Release Features: Good Mold Release and High Flow RoHS Compliant Form: Pellets Appearance: Clear/Transparent Information provided by Entec

Order this product through the following link:

http://www.lookpolymers.com/polymer_Entec-Hylex-P1017L1-HB-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	ASTM D570
	@Time 86400 sec	@Time 24.0 hour	
Linear Mold Shrinkage, Flow	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	17 g/10 min	17 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	70	70	ASTM D785
Tensile Strength at Break	68.9 MPa	10000 psi	ASTM D638
Elongation at Break	130 %	130 %	ASTM D638
Flexural Strength	95.8 MPa	13900 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	6.94 J/cm	13.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	Unannealed; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	129 °C	265 °F	Unannealed; ASTM D648
Vicat Softening Point	154 °C	310 °F	ASTM D1525
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	

Optical Properties	Metric	English	Comments
Refractive Index	1.586	1.586	ASTM D542
Haze	1.0 % @Thickness 3.17 mm	1.0 % @Thickness 0.125 in	ASTM D1003
Transmission, Visible	88 % @Thickness 3.17 mm	88 % @Thickness 0.125 in	ASTM D1003

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+17 ohm-cm	1.00e+17 ohm-cm	ASTM D257
Dielectric Strength	15.0 kV/mm @Thickness 3.17 mm	380 kV/in @Thickness 0.125 in	In air; ASTM D149

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