

Entec Hylex® P1307L1 HB Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Optical Grade

Material Notes:

UV Stabilized, Low Flow, Mold Release, Water Clear
Information provided by Entec.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Entec-Hylex-P1307L1-HB-Polycarbonate.php

Physical Properties	Metric	English	Comments
Density	1.20 g/cc	0.0434 lb/in ³	ASTM D792
Water Absorption at Saturation	0.15 %	0.15 %	Immersion; ASTM D570
Linear Mold Shrinkage	0.005 - 0.007 cm/cm	0.005 - 0.007 in/in	ASTM D955
Melt Flow	7.0 g/10 min @Load 1.20 kg, Temperature 300 °C	7.0 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	118	118	ASTM D785
Tensile Strength at Break	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	130 %	130 %	ASTM D638
Flexural Strength	93.1 MPa	13500 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	8.54 J/cm	16.0 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	124 °C	255 °F	ASTM D648
Flammability, UL94	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@Thickness 3.00 mm	@Thickness 0.118 in	

Optical Properties	Metric	English	Comments
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Refractive Index Optical Properties	1.586 Metric	1.586 English	ASTM D942 Comments
Haze	1.0 %	1.0 %	ASTM D1003
Transmission, Visible	88 %	88 %	ASTM D1003

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