

Entec Hylex® P1317L1 HB Polycarbonate

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

Material Notes:

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

Order this product through the following link:

http://www.lookpolymers.com/polymer_Entec-Hylex-P1317L1-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	17 g/10 min @Load 1.20 kg, Temperature 300 °C	17 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	138 °C	280 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	129 °C	265 °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

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.0e+17 ohm-cm	1.0e+17 ohm-cm	ASTM D257
Dielectric Strength	15.0 kV/mm	380 kV/in	ASTM D149

Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China