

Diamond Polymers PC-1500F Clear, Natural Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC)

Material Notes:

Information Provided by Diamond Polymers, Inc. & Network Polymers, Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Diamond-Polymers-PC-1500F-Clear-Natural-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Water Absorption	0.25 %	0.25 %	ASTM D570
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Melt Flow	16 g/10 min	16 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 R	123	123	ASTM D785
Tensile Strength, Yield	62.0 MPa	8990 psi	chs 2.0 in/min; ASTM D638
Flexural Strength	85.0 MPa	12300 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	chs 0.05 in/min; ASTM D790
Izod Impact, Notched	8.54 J/cm	16.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	136 °C	277 °F	0.125";; ASTM D648

Optical Properties	Metric	English	Comments
Transmission, Visible	90 %	90 %	clear; thickness not quantified

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