

Diamond Polymers PC-1212FRO Natural, Flame Retardant Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Unreinforced, Flame Retardant

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-1212FRO-Natural-Flame-Retardant-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	12 g/10 min @Load 1.20 kg, Temperature 300 °C	12 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	59.0 MPa	8560 psi	chs 2.0 in/min; ASTM D638
Tensile Strength, Yield	62.0 MPa	8990 psi	chs 2.0 in/min; ASTM D638
Flexural Yield Strength	90.0 MPa	13100 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	2.277 GPa	330.3 ksi	chs 0.05 in/min; ASTM D790
Izod Impact, Notched	6.48 J/cm @Thickness 3.17 mm	12.1 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	137 °C	279 °F	0.125"; ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	132 °C	270 °F	0.125"; ASTM D648
Flammability, UL94	V-0 @Thickness 1.57 mm	V-0 @Thickness 0.0620 in	
	5VA @Thickness 3.17 mm	5VA @Thickness 0.125 in	

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