

Diamond Polymers PC 2109E UV Natural - Extrusion Grade, UV Stabilized, Flame Retardant Polycarbonate

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

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-2109E-UV-Natural-Extrusion-Grade-UV-Stabilized-Flame-Retardant-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Water Absorption	0.15 % @Temperature 23.0 °C, Time 86400 sec	0.15 % @Temperature 73.4 °F, Time 24.0 hour	ASTM D570
Linear Mold Shrinkage	0.0020 - 0.0070 cm/cm	0.0020 - 0.0070 in/in	ASTM D955
Melt Flow	6.0 g/10 min @Load 1.20 kg, Temperature 300 °C	6.0 g/10 min @Load 2.65 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	120	120	ASTM D785
Tensile Strength, Yield	61.3 MPa	8890 psi	chs 2.0 in/min; ASTM D638
Flexural Strength	90.1 MPa	13100 psi	chs 0.05 in/min; 5% strain; ASTM D790
Flexural Modulus	2.205 GPa	319.8 ksi	chs 0.05 in/min; ASTM D790
Izod Impact, Notched	7.47 J/cm @Thickness 3.17 mm	14.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	123 °C	253 °F	0.125";; ASTM D648
Vicat Softening Point	150 °C @Load 1.00 kg, Thickness 3.17 mm	302 °F @Load 2.20 lb, Thickness 0.125 in	ASTM D1525
Flammability, UL94	5VB @Thickness 1.57 mm	5VB @Thickness 0.0620 in	

Thermal Properties	Metric	English	Comments
	@Thickness 3.17 mm	@Thickness 0.125 in	

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