

Diamond Polymers DIAMALLOY PC 1812 Impact Modified Polycarbonate

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Impact Modified

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-DIAMALLOY-PC-1812-Impact-Modified-Polycarbonate.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage	0.0060 - 0.0080 cm/cm	0.0060 - 0.0080 in/in	ASTM D955
Melt Flow	18 g/10 min @Load 3.80 kg, Temperature 300 °C	18 g/10 min @Load 8.38 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	58.0 MPa	8410 psi	chs 50 mm/min; ASTM D638
Elongation at Break	110 %	110 %	chs 50 mm/min; ASTM D638
Flexural Strength	90.0 MPa	13100 psi	chs 2 mm/min; ASTM D790
Flexural Modulus	2.27 GPa	329 ksi	chs 2 mm/min; ASTM D790
Izod Impact, Notched	3.74 J/cm @Thickness 3.17 mm, Temperature -30.0 °C	7.01 ft-lb/in @Thickness 0.125 in, Temperature -22.0 °F	ASTM D256
	6.41 J/cm @Thickness 3.17 mm, Temperature 23.0 °C	12.0 ft-lb/in @Thickness 0.125 in, Temperature 73.4 °F	ASTM D256
Dart Drop, Total Energy	51.0 J	37.6 ft-lb	Peak Energy; ASTM D3763

Thermal Properties	Metric	English	Comments
Vicat Softening Point	146 °C @Load 5.00 kg, Thickness 3.17 mm	295 °F @Load 11.0 lb, Thickness 0.125 in	ASTM D1525
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0625 in	
	HB	HB	

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