

Diamond Polymers DIAMALLOY 527 PC/PBT Alloy

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/Polybutylene Terephthalate (PBT) Blend, Unreinforced , Polyester, TP , Polybutylene Terephthalate (PBT)

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-527-PCPBT-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.18 g/cc	1.18 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	26.4 g/10 min @Load 5.00 kg, Temperature 260 °C	26.4 g/10 min @Load 11.0 lb, Temperature 500 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	53.0 MPa	7690 psi	chs 2.0 in/min; ASTM D638
Elongation at Yield	4.5 %	4.5 %	chs 2.0 in/min; ASTM D638
Flexural Yield Strength	75.0 MPa	10900 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	1.95 GPa	283 ksi	chs 0.05 in/min; ASTM D790
Izod Impact, Notched	6.41 J/cm @Thickness 3.17 mm	12.0 ft-lb/in @Thickness 0.125 in	ASTM D256

Thermal Properties	Metric	English	Comments
Vicat Softening Point	128 °C @Load 1.00 kg, Thickness 3.17 mm	262 °F @Load 2.20 lb, Thickness 0.125 in	ASTM D1527

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