

Diamond Polymers DIAMALLOY 627 PC/Polyester Alloy

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate/PET Polyester Blend , Polyester, TP , Polyethylene Terephthalate (PET)

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-627-PCPolyester-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.20 g/cc	1.20 g/cc	ASTM D792
Linear Mold Shrinkage	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
Melt Flow	6.2 g/10 min	6.2 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 300 °C	@Load 8.38 lb, Temperature 572 °F	
	26.2 g/10 min	26.2 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 260 °C	@Load 11.0 lb, Temperature 500 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	51.7 MPa	7500 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	73.0 MPa	10600 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	1.998 GPa	289.8 ksi	chs 0.05 in/min; ASTM D790
Izod Impact, Notched	6.94 J/cm	13.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

Thermal Properties	Metric	English	Comments
Vicat Softening Point	161 °C	322 °F	ASTM D1527
	@Load 1.00 kg, Thickness 3.17 mm	@Load 2.20 lb, Thickness 0.125 in	

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