

## Diamond Polymers DIAMALLOY 1418 Polycarbonate/Polyester Alloy

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

**Material Notes:**

Information Provided by Diamond Polymers, Inc. &amp; Network Polymers, Inc.

Order this product through the following link:

[http://www.lookpolymers.com/polymer\\_Diamond-Polymers-DIAMALLOY-1418-PolycarbonatePolyester-Alloy.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-DIAMALLOY-1418-PolycarbonatePolyester-Alloy.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 g/cc	ASTM D792
Linear Mold Shrinkage	0.0070 - 0.0090 cm/cm	0.0070 - 0.0090 in/in	ASTM D955
Melt Flow	6.0 g/10 min	6.0 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	12 g/10 min	12 g/10 min	ASTM D1238
	@Load 2.16 kg, Temperature 265 °C	@Load 4.76 lb, Temperature 509 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	54.0 MPa	7830 psi	chs 2.0 in/min; ASTM D638
Elongation at Yield	4.6 %	4.6 %	chs 2.0 in/min; ASTM D638
Flexural Yield Strength	80.6 MPa	11700 psi	chs 0.05 in/min; ASTM D790
Flexural Modulus	2.139 GPa	310.2 ksi	chs 0.05 in/min; ASTM D790
Izod Impact, Notched	6.41 J/cm	12.0 ft-lb/in	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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