

Diamond Polymers NPP 808 C3 TDS Polycarbonate Alloy

Category : Polymer , Thermoplastic , Polycarbonate (PC)

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-NPP-808-C3-TDS-Polycarbonate-Alloy.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Water Absorption	0.35 %	0.35 %	Equilibrium; ASTM D570
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	0.15 %	0.15 %	ASTM D570
	@Temperature 23.0 °C, Time 86400 sec	@Temperature 73.4 °F, Time 24.0 hour	
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	4.5 g/10 min	4.5 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	54.6 MPa	7920 psi	chs 2.0 in/min; ASTM D638
Elongation at Break	233 %	233 %	ASTM D638
Flexural Modulus	2.15 GPa	312 ksi	chs 0.05 in/min; tangent; ASTM D790
Izod Impact, Notched	NB	NB	reverse notched; ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Gardner Impact	>= 36.2 J	>= 26.7 ft-lb	ASTM D5420
	@Temperature 23.0 °C	@Temperature 73.4 °F	
	>= 36.2 J	>= 26.7 ft-lb	ASTM D5420
	@Temperature -17.8 °C	@Temperature -0.0400 °F	
	>= 36.2 J	>= 26.7 ft-lb	ASTM D5420
	@Temperature -28.9 °C	@Temperature -20.0 °F	

Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

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