

## Diamond Polymers NPP 808 C2 TDS Polycarbonate Alloy, Natural

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-C2-TDS-Polycarbonate-Alloy-Natural.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-NPP-808-C2-TDS-Polycarbonate-Alloy-Natural.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.21 g/cc	1.21 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	3.0 g/10 min	3.0 g/10 min	ASTM D1238
	@Load 5.00 kg, Temperature 200 °C	@Load 11.0 lb, Temperature 392 °F	
	12 g/10 min	12 g/10 min	ASTM D1238
	@Load 3.80 kg, Temperature 230 °C	@Load 8.38 lb, Temperature 446 °F	
	78 g/10 min	78 g/10 min	ASTM D1238
	@Load 1.20 kg, Temperature 300 °C	@Load 2.65 lb, Temperature 572 °F	

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	55.1 MPa	7990 psi	chs 2.0 in/min; ASTM D638
Tensile Modulus	2.067 GPa	299.8 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	

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

## Contact Songhan Plastic Technology Co.,Ltd.

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