

## Diamond Polymers NPP 808 C5 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-C5-TDS-Polycarbonate-Alloy.php](http://www.lookpolymers.com/polymer_Diamond-Polymers-NPP-808-C5-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	1.8 g/10 min	1.8 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	59.3 MPa	8600 psi	chs 2.0 in/min; ASTM D638
Elongation at Break	106 %	106 %	ASTM D638
Flexural Modulus	2.322 GPa	336.8 ksi	chs 0.05 in/min; tangent; ASTM D790
Izod Impact, Notched	0.907 J/cm	1.70 ft-lb/in	ASTM D256
	@Thickness 3.17 mm, Temperature 23.0 °C	@Thickness 0.125 in, Temperature 73.4 °F	
Izod Impact, Unnotched	NB	NB	ASTM D256
	@Thickness 3.17 mm	@Thickness 0.125 in	
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

Mechanical Properties	@Temperature -28.9 °C Metric	@Temperature -20.0 °F English	Comments
Optical Properties	Metric	English	Comments
Haze	1.0 %	1.0 %	ASTM D1003
Transmission, Visible	90 %	90 %	ASTM D1003

## Contact Songhan Plastic Technology Co.,Ltd.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China