

Network Polymers NPP 808 C5WW

Category : Polymer , Thermoplastic , Polycarbonate (PC) , Polycarbonate, Molded

Material Notes:

Description: Polycarbonate Alloy Information provided by Network Polymers Inc.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Network-Polymers-NPP-808-C5WW.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.22 g/cc	1.22 g/cc	ASTM D792
Water Absorption	0.15 %	0.15 %	24 hours at 73°F; ASTM D570
Water Absorption at Saturation	0.35 %	0.35 %	73°F; ASTM D570
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	1.8 g/10 min @Load 5.00 kg, Temperature 200 °C	1.8 g/10 min @Load 11.0 lb, Temperature 392 °F	Procedure A Condition G; ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength, Yield	59.35 MPa	8608 psi	chs 2 in/min; ASTM D638
Elongation at Break	106 %	106 %	ASTM D638
Flexural Modulus	2.32 GPa	337 ksi	Tangent (chs speed 0.05 in/min); ASTM D790
Izod Impact, Notched	0.908 J/cm	1.70 ft-lb/in	Test Method A (0.125 in bar); ASTM D256
Izod Impact, Unnotched	NB	NB	ASTM D256
Gardner Impact	>= 36.2 J @Temperature -18.0 °C	>= 26.7 ft-lb @Temperature -0.400 °F	ASTM D5420
	>= 36.2 J @Temperature -30.0 °C	>= 26.7 ft-lb @Temperature -22.0 °F	ASTM D-5420
	>= 36.2 J @Temperature 23.0 °C	>= 26.7 ft-lb @Temperature 73.4 °F	ASTM D5420

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	81.1 °C	178 °F	0.125 in bar, Unannealed/Conditioned 48 hours; ASTM D648

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

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