

Polymer Resources PPX/NY G10 Modified PPO, 10% Glass Reinforced PPX/Nylon 6,6 Alloy (Unverified Data**)&

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 10% Glass Filled

Material Notes:

Process: Injection Molding Notes: All physical, mechanical and thermal testing conducted on 1/8-inch thick, un-pigmented, test samples.

Information provided by Polymer Resources Corporation.

Order this product through the following link:

http://www.lookpolymers.com/polymer_Polymer-Resources-PPXNY-G10-Modified-PPO-10-Glass-Reinforced-PPXNylon-66-Alloy-nbspUnverified-Datal.php

Physical Properties	Metric	English	Comments
Density	1.16 g/cc	0.0419 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.010 cm/cm	0.0050 - 0.010 in/in	ASTM D955
Melt Flow	2.0 - 8.0 g/10 min	2.0 - 8.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	86.2 MPa	12500 psi	ASTM D638
Tensile Strength, Yield	86.2 MPa	12500 psi	ASTM D638
Flexural Strength	141 MPa	20500 psi	ASTM D790
Flexural Modulus	3.52 GPa	510 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm	0.900 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	204 °C	400 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	216 °C	420 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	268 - 302 °C	515 - 575 °F	
Middle Barrel Temperature	274 - 302 °C	525 - 575 °F	
Front Barrel Temperature	279 - 302 °C	535 - 575 °F	
Melt Temperature	279 - 302 °C	535 - 575 °F	
Mold Temperature	79.4 - 121 °C	175 - 250 °F	

Drying Temperature Processing Properties	93.3 - 107 °C Metric	200 - 225 °F English	Comments
Dry Time	3 - 5 hour	3 - 5 hour	

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