

Polymer Resources PPX/NY GP1 Modified PPO, General Purpose PPX/Nylon 6,6 Alloy (Unverified Data**)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, Molded

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-GP1-Modified-PPO-General-Purpose-PPXNylon-66-Alloy-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.08 g/cc	0.0390 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0090 - 0.012 cm/cm	0.0090 - 0.012 in/in	ASTM D955
Melt Flow	20 - 40 g/10 min	20 - 40 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.2 MPa	8000 psi	ASTM D638
Tensile Strength, Yield	57.9 MPa	8400 psi	ASTM D638
Flexural Strength	8.62 MPa	1250 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	2.14 J/cm	4.00 ft-lb/in	ASTM D256
Gardner Impact	>= 28.2 J	>= 20.8 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	141 °C	285 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	113 °C	235 °F	ASTM D648

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 299 °C	500 - 570 °F	
Middle Barrel Temperature	266 - 299 °C	510 - 570 °F	
Front Barrel Temperature	271 - 299 °C	520 - 570 °F	
Melt Temperature	277 - 299 °C	530 - 570 °F	

Mold Temperature Processing Properties	65.6 - 93.3 °C Metric	150 - 200 °F English	Comments
Drying Temperature	93.3 - 107 °C	200 - 225 °F	
Dry Time	3 - 5 hour	3 - 5 hour	

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