

Polymer Resources PPX/NY GP2 PPO/Nylon 66 Alloy, Medium Heat

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

Material Notes:

Polyphenylene Oxide/Nylon 66 Alloy , General Purpose, Medium Heat
 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-GP2-PPONylon-66-Alloy-Medium-Heat.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Linear Mold Shrinkage	0.010 - 0.013 cm/cm	0.010 - 0.013 in/in	ASTM D955
Melt Flow	10 - 30 g/10 min @Load 3.80 kg, Temperature 300 °C	10 - 30 g/10 min @Load 8.38 lb, Temperature 572 °F	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	89.6 MPa	13000 psi	ASTM D790
Flexural Modulus	2.07 GPa	300 ksi	ASTM D790
Izod Impact, Notched	1.87 J/cm @Temperature 22.8 °C	3.50 ft-lb/in @Temperature 73.0 °F	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)	154 °C	310 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	129 °C	265 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0626 in	
	HB @Thickness 3.17 mm	HB @Thickness 0.125 in	

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	266 - 302 °C	510 - 575 °F	
Middle Barrel Temperature	271 - 302 °C	520 - 575 °F	
Front Barrel Temperature	277 - 302 °C	530 - 575 °F	
Melt Temperature	279 - 302 °C	535 - 575 °F	
Mold Temperature	76.7 - 121 °C	170 - 250 °F	
Drying Temperature	93.3 - 107 °C	200 - 225 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.001	

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