

Polymer Resources PPX/NY G20 PPO/Nylon 66 Alloy , 20% Glass Reinforced

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

Material Notes:

Polyphenylene Oxide/Nylon 66 Alloy , 20% Glass Reinforced
 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-G20-PPONylon-66-Alloy-20-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.25 g/cc	1.25 g/cc	ASTM D792
Linear Mold Shrinkage	0.0040 - 0.0070 cm/cm	0.0040 - 0.0070 in/in	ASTM D955
Melt Flow	1.0 - 4.0 g/10 min @Load 3.80 kg, Temperature 300 °C	1.0 - 4.0 g/10 min @Load 8.38 lb, Temperature 572 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	114 MPa	16500 psi	ASTM D638
Tensile Strength, Yield	114 MPa	16500 psi	ASTM D638
Flexural Strength	169 MPa	24500 psi	ASTM D790
Flexural Modulus	5.38 GPa	780 ksi	ASTM D790
Izod Impact, Notched	0.481 J/cm @Temperature 22.8 °C	0.900 ft-lb/in @Temperature 73.0 °F	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	210 °C	410 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	221 °C	430 °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	268 - 302 °C	515 - 575 °F	

Processing Properties	Metric	English	Comments
Middle Barrel Temperature	279 - 302 °C	535 - 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	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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