

Polymer Resources PPX-G10 Modified PPO, 10% Glass Reinforced (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-PPX-G10-Modified-PPO-10-Glass-Reinforced-nbspUnverified-Data.php

Physical Properties	Metric	English	Comments
Density	1.14 g/cc	0.0412 lb/in ³	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Melt Flow	2.0 - 6.0 g/10 min	2.0 - 6.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	72.4 MPa	10500 psi	ASTM D638
Tensile Strength, Yield	72.4 MPa	10500 psi	ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	3.45 GPa	500 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm	2.00 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	127 °C	260 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	121 °C	250 °F	ASTM D648
Flammability, UL94	HB	HB	1/16 in
	HB	HB	1/8 in

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	260 - 304 °C	500 - 580 °F	
Middle Barrel Temperature	271 - 310 °C	520 - 590 °F	
Front Barrel Temperature	282 - 316 °C	540 - 600 °F	
Melt Temperature	288 - 316 °C	550 - 600 °F	

Processing Properties	Metric	English	Comments
Mold Temperature	71.7 - 104 °C	160 - 220 °F	
Drying Temperature	104 - 110 °C	220 - 230 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

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