

Polymer Resources PPX-GP8 Modified-PPO, Impact Modified

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

Material Notes:

Modified-Polyphenylene Oxide, Impact Modified, 240F HDT
 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-GP8-Modified-PPO-Impact-Modified.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.04 g/cc	1.04 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	14 - 20 g/10 min @Load 11.6 kg, Temperature 250 °C	14 - 20 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	44.8 MPa	6500 psi	ASTM D638
Tensile Strength, Yield	44.8 MPa	6500 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Strength	68.9 MPa	10000 psi	ASTM D790
Flexural Modulus	1.97 GPa	285 ksi	ASTM D790
Izod Impact, Notched	1.87 J/cm @Temperature -40.0 °C	3.50 ft-lb/in @Temperature -40.0 °F	ASTM D256
	3.74 J/cm @Temperature 22.8 °C	7.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	16.9 J	12.5 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	116 °C	240 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	110 °C	230 °F	ASTM D648
Flammability, UL94	HB @Thickness 1.59 mm	HB @Thickness 0.0626 in	

Thermal Properties	^{UB} Metric	^{UB} English	Comments
	@Thickness 3.17 mm	@Thickness 0.125 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	1.00e+16 ohm-cm	1.00e+16 ohm-cm	ASTM D257

Processing Properties	Metric	English	Comments
Rear Barrel Temperature	243 - 293 °C	470 - 560 °F	
Middle Barrel Temperature	254 - 299 °C	490 - 570 °F	
Front Barrel Temperature	266 - 304 °C	510 - 580 °F	
Melt Temperature	274 - 302 °C	525 - 575 °F	
Mold Temperature	65.6 - 98.9 °C	150 - 210 °F	
Drying Temperature	104 - 110 °C	220 - 230 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.0015	

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