

Polymer Resources PPX-GP3-WR Modified-PPO, Wear Resistant

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

Material Notes:

Modified-Polyphenylene Oxide, Wear Resistant, 235F HDTFeatures: • Hydrolytically Stable • Low to No Water Absorption • Good Wear

ResistanceProcess: Injection MoldingNotes: 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-GP3-WR-Modified-PPO-Wear-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.08 g/cc	1.08 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	15 - 21 g/10 min @Load 11.6 kg, Temperature 250 °C	15 - 21 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	48.3 MPa	7000 psi	ASTM D638
Tensile Strength, Yield	48.3 MPa	7000 psi	ASTM D638
Elongation at Break	32 %	32 %	ASTM D638
Flexural Strength	72.4 MPa	10500 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 ksi	ASTM D790
Izod Impact, Notched	1.33 J/cm @Temperature -30.0 °C	2.50 ft-lb/in @Temperature -22.0 °F	ASTM D256
	2.14 J/cm @Temperature 22.8 °C	4.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	13.6 J	10.0 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	113 °C	235 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	107 °C	225 °F	ASTM D648

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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