

Polymer Resources PPX-GP4-WR Modified-PPO, General Purpose, Wear Resistant

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

Material Notes:

Modified-Polyphenylene Oxide, General Purpose, Wear Resistant, 215F 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-GP4-WR-Modified-PPO-General-Purpose-Wear-Resistant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	25 - 35 g/10 min @Load 11.6 kg, Temperature 250 °C	25 - 35 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	36.5 MPa	5300 psi	ASTM D638
Tensile Strength, Yield	36.5 MPa	5300 psi	ASTM D638
Elongation at Break	50 %	50 %	ASTM D638
Flexural Strength	47.6 MPa	6900 psi	ASTM D790
Flexural Modulus	1.78 GPa	258 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Temperature -40.0 °C	1.50 ft-lb/in @Temperature -40.0 °F	ASTM D256
	1.60 J/cm @Temperature 22.8 °C	3.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	14.1 J	10.4 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	102 °C	215 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	96.1 °C	205 °F	ASTM D648
UL RTI, Electrical	65.0 °C	149 °F	UL 746

Thermal Properties	@Thickness 1.59 mm Metric	@Thickness 0.0625 in English	Comments
	65.0 °C	149 °F	UL 746
	@Thickness 3.17 mm	@Thickness 0.125 in	
UL RTI, Mechanical with Impact	65.0 °C	149 °F	UL 746
	@Thickness 1.59 mm	@Thickness 0.0625 in	
	65.0 °C	149 °F	UL 746
	@Thickness 3.17 mm	@Thickness 0.125 in	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	UL 746
	@Thickness 1.59 mm	@Thickness 0.0625 in	
	65.0 °C	149 °F	UL 746
	@Thickness 3.17 mm	@Thickness 0.125 in	
Flammability, UL94	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0626 in	
	HB	HB	
	@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	249 - 299 °C	480 - 570 °F	
Middle Barrel Temperature	260 - 304 °C	500 - 580 °F	
Front Barrel Temperature	271 - 310 °C	520 - 590 °F	
Melt Temperature	288 - 316 °C	550 - 600 °F	
Mold Temperature	71.1 - 98.9 °C	160 - 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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