

Polymer Resources PPX-GP3 Modified-PPO, General Purpose

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

Material Notes:

Modified-Polyphenylene Oxide, General Purpose, 235F HDT
 Features: • Hydrolytically Stable • Low to No Water Absorption
 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-GP3-Modified-PPO-General-Purpose.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.05 g/cc	1.05 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	12 - 18 g/10 min @Load 11.6 kg, Temperature 250 °C	12 - 18 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	114	114	ASTM D785
Tensile Strength at Break	43.4 MPa	6300 psi	ASTM D638
Tensile Strength, Yield	46.9 MPa	6800 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Elongation at Yield	3.0 %	3.0 %	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
Izod Impact, Notched (ISO)	4.20 kJ/m ² @Temperature -30.0 °C	2.00 ft-lb/in ² @Temperature -22.0 °F	ISO 180/1A
	14.7 kJ/m ² @Temperature 22.8 °C	7.00 ft-lb/in ² @Temperature 73.0 °F	ISO 180/1A

Mechanical Properties _D	1.47 J/cm ² Metric	7.00 ft-lb/in ² English	Comments _A
	@Temperature 22.8 °C	@Temperature 73.0 °F	
Gardner Impact	16.9 J	12.5 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
Vicat Softening Point	127 °C	260 °F	120°C/h, 50 N; ASTM D1525
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	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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