

Polymer Resources PPX-FR4 Modified-PPO, V-1 Flame Retardant

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, Heat Resistant

Material Notes:

Modified-Polyphenylene Oxide, V-1 Flame Retardant, 185F HDT
 Features: • Bromine Free • Chlorine Free
 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-FR4-Modified-PPO-V-1-Flame-Retardant.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	35 - 50 g/10 min @Load 11.6 kg, Temperature 250 °C	35 - 50 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	117	117	ASTM D785
Tensile Strength at Break	46.9 MPa	6800 psi	ASTM D638
Tensile Strength, Yield	48.3 MPa	7000 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Strength	72.4 MPa	10500 psi	ASTM D790
Flexural Modulus	2.21 GPa	320 ksi	ASTM D790
Izod Impact, Notched	0.801 J/cm @Temperature -30.0 °C	1.50 ft-lb/in @Temperature -22.0 °F	ASTM D256
	2.67 J/cm @Temperature 22.8 °C	5.00 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)	85.0 °C	185 °F	ASTM D648

Thermal Properties <small>Deflection Temperature at 1.8 MPa (104 psi)</small>	76.7 °C Metric	170 °F English	ASTM D648 Comments
Flammability, UL94	V-1	V-1	
	@Thickness 1.59 mm	@Thickness 0.0626 in	
	V-1	V-1	
	@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	216 - 266 °C	420 - 510 °F	
Middle Barrel Temperature	227 - 271 °C	440 - 520 °F	
Front Barrel Temperature	238 - 277 °C	460 - 530 °F	
Melt Temperature	246 - 274 °C	475 - 525 °F	
Mold Temperature	65.6 - 82.2 °C	150 - 180 °F	
Drying Temperature	76.7 - 82.2 °C	170 - 180 °F	
Dry Time	3.00 - 4.00 hour	3.00 - 4.00 hour	

Descriptive Properties	Value	Comments
Vent	0.001	

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