

Polymer Resources PPX-FR2 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, 210F 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-FR2-Modified-PPO-V-1-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	20 - 40 g/10 min @Load 11.6 kg, Temperature 250 °C	20 - 40 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	49.0 MPa	7100 psi	ASTM D638
Tensile Strength, Yield	50.3 MPa	7300 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Elongation at Yield	6.0 %	6.0 %	ASTM D638
Flexural Strength	82.7 MPa	12000 psi	ASTM D790
Flexural Modulus	2.41 GPa	350 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Temperature -30.0 °C	2.00 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
Charpy Impact, Notched	1.68 J/cm ² @Temperature 22.8 °C	8.00 ft-lb/in ² @Temperature 73.0 °F	ISO 179/1eA
Gardner Impact	16.9 J	12.5 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	98.9 °C	210 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	93.3 °C	208 °F	ASTM D648
UL RTI, Electrical	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	UL 746
	65.0 °C @Thickness 5.99 mm	149 °F @Thickness 0.236 in	UL 746
UL RTI, Mechanical with Impact	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	UL 746
	65.0 °C @Thickness 5.99 mm	149 °F @Thickness 0.236 in	UL 746
UL RTI, Mechanical without Impact	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	UL 746
	65.0 °C @Thickness 5.99 mm	149 °F @Thickness 0.236 in	UL 746
Flammability, UL94	V-1 @Thickness 1.70 mm	V-1 @Thickness 0.0669 in	
	V-1 @Thickness 3.00 mm	V-1 @Thickness 0.118 in	

Electrical Properties	Metric	English	Comments
Volume Resistivity	3.10e+16 ohm-cm	3.10e+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	249 - 277 °C	480 - 530 °F	
Mold Temperature	54.4 - 76.7 °C	130 - 170 °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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