

Polymer Resources PPX-FR6 Modified-PPO, V-0 Flame Retardant

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

Material Notes:

Modified-Polyphenylene Oxide, V-0 Flame Retardant, 300F 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-FR6-Modified-PPO-V-0-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.07 g/cc	1.07 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	1.0 - 3.0 g/10 min @Load 11.6 kg, Temperature 250 °C	1.0 - 3.0 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	66.9 MPa	9700 psi	ASTM D638
Tensile Strength, Yield	70.3 MPa	10200 psi	ASTM D638
Elongation at Break	20 %	20 %	ASTM D638
Flexural Strength	98.6 MPa	14300 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Temperature 22.8 °C	3.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Charpy Impact, Notched	1.26 J/cm ² @Temperature 22.8 °C	6.00 ft-lb/in ² @Temperature 73.0 °F	ISO 179/1eA
Gardner Impact	22.6 J	16.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	149 °C	300 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	141 °C	285 °F	ASTM D648
Vicat Softening Point	141 °C	285 °F	120°C/h, 50 N; ASTM D1525

Thermal Properties	65.0 °C Metric	149 °F English	Comments
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	65.0 °C	149 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical with Impact	65.0 °C	149 °F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	65.0 °C	149 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
UL RTI, Mechanical without Impact	65.0 °C	149 °F	UL 746
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	65.0 °C	149 °F	UL 746
	@Thickness 3.00 mm	@Thickness 0.118 in	
Flammability, UL94	V-0	V-0	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	V-0	V-0	
	@Thickness 3.00 mm	@Thickness 0.118 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	260 - 304 °C	500 - 580 °F	
Middle Barrel Temperature	271 - 310 °C	520 - 590 °F	
Front Barrel Temperature	282 - 316 °C	540 - 600 °F	
Melt Temperature	293 - 316 °C	560 - 600 °F	
Mold Temperature	82.2 - 116 °C	180 - 240 °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	0.001	

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