

Polymer Resources PPX-FRG20 Modified-PPO, V-1 Flame Retardant, 20% Glass Reinforced

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 20% Glass Filled , Polyphenylene Ether, Heat Resistant

Material Notes:

Modified-Polyphenylene Oxide, V-1 Flame Retardant, 20% Glass Reinforced 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-FRG20-Modified-PPO-V-1-Flame-Retardant-20-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Melt Flow	1.0 - 8.0 g/10 min @Load 11.6 kg, Temperature 250 °C	1.0 - 8.0 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	106	106	ASTM D785
Tensile Strength at Break	96.5 MPa	14000 psi	ASTM D638
Tensile Strength, Yield	96.5 MPa	14000 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	124 MPa	18000 psi	ASTM D790
Flexural Modulus	4.83 GPa	700 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
	0.908 J/cm @Temperature 22.8 °C	1.70 ft-lb/in @Temperature 73.0 °F	ASTM D256
Charpy Impact, Notched	0.630 J/cm ² @Temperature 22.8 °C	3.00 ft-lb/in ² @Temperature 73.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	ASTM D648

Thermal Properties (Tensile at 1.8 MPa (264 psi))	Metric	English	Comments
UL RTI, Electrical	65.0 °C @Thickness 1.70 mm	149 °F @Thickness 0.0669 in	UL 746
UL RTI, Mechanical with Impact	65.0 °C @Thickness 1.70 mm	149 °F @Thickness 0.0669 in	UL 746
UL RTI, Mechanical without Impact	65.0 °C @Thickness 1.70 mm	149 °F @Thickness 0.0669 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	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	0.001	

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