

Polymer Resources PPX-MF-FRG20 Modified-PPO, 40% Glass/Mineral Reinforced, Flame Retardant

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 40% Glass Filled , Polyphenylene Ether, Heat Resistant

Material Notes:

Modified-Polyphenylene Oxide, 40% Glass/Mineral Reinforced, Flame Retardant Features: • Bromine Free • Chlorine Free • Self

Extinguishing 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-MF-FRG20-Modified-PPO-40-GlassMineral-Reinforced-Flame-Retardant.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.43 g/cc	1.43 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0030 cm/cm	0.0010 - 0.0030 in/in	ASTM D955
Melt Flow	1.0 - 9.0 g/10 min @Load 11.6 kg, Temperature 250 °C	1.0 - 9.0 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell M	90	90	ASTM D785
Tensile Strength at Break	126 MPa	18300 psi	ASTM D638
Tensile Strength, Yield	126 MPa	18300 psi	ASTM D638
Elongation at Yield	1.5 %	1.5 %	ASTM D638
Flexural Strength	159 MPa	23000 psi	ASTM D790
Flexural Modulus	9.65 GPa	1400 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm @Temperature 22.8 °C	1.30 ft-lb/in @Temperature 73.0 °F	ASTM D256

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)	121 °C	250 °F	ASTM D648
Flammability, UL94	V-1 @Thickness 1.59 mm	V-1 @Thickness 0.0626 in	

Thermal Properties	Metric	English	Comments
	@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	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	76.7 - 104 °C	170 - 220 °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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