

Polymer Resources PPX-FRG30 Modified-PPO, V-1 Flame Retardant, 30% Glass Reinforced

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 30% Glass Filled , Polyphenylene Ether, Heat Resistant

Material Notes:

Modified-Polyphenylene Oxide, V-1 Flame Retardant, 30% 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-FRG30-Modified-PPO-V-1-Flame-Retardant-30-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.31 g/cc	1.31 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 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	108	108	ASTM D785
Tensile Strength at Break	110 MPa	16000 psi	ASTM D638
Tensile Strength, Yield	117 MPa	17000 psi	ASTM D638
Elongation at Break	5.0 %	5.0 %	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	7.24 GPa	1050 ksi	ASTM D790
Izod Impact, Notched	0.747 J/cm @Temperature -40.0 °C	1.40 ft-lb/in @Temperature -40.0 °F	ASTM D256
	0.961 J/cm @Temperature 22.8 °C	1.80 ft-lb/in @Temperature 73.0 °F	ASTM D256
Charpy Impact, Notched	0.777 J/cm ² @Temperature 22.8 °C	3.70 ft-lb/in ² @Temperature 73.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	135 °C	275 °F	ASTM D648

Thermal Properties (Tensile at 1.8 MPa (264 psi))	Metric	English	Comments
UL RTI, Electrical	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	UL 746
	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	UL 746
UL RTI, Mechanical with Impact	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	UL 746
	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	UL 746
UL RTI, Mechanical without Impact	65.0 °C @Thickness 1.50 mm	149 °F @Thickness 0.0591 in	UL 746
	65.0 °C @Thickness 3.00 mm	149 °F @Thickness 0.118 in	UL 746
Flammability, UL94	V-1 - 5VA @Thickness 1.60 mm	V-1 - 5VA @Thickness 0.0630 in	
	V-1 - 5VA @Thickness 3.00 mm	V-1 - 5VA @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
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Descriptive Properties

Value

Comments

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