

## Polymer Resources PPX-MF-FR3 Modified-PPO, V-0 Flame Retardant, Mineral Reinforced

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

### Material Notes:

Modified-Polyphenylene Oxide, V-0 Flame Retardant, 230F HDT, Mineral Reinforced 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-FR3-Modified-PPO-V-0-Flame-Retardant-Mineral-Reinforced.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PPX-MF-FR3-Modified-PPO-V-0-Flame-Retardant-Mineral-Reinforced.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.23 g/cc	1.23 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	3.0 - 10 g/10 min @Load 11.6 kg, Temperature 250 °C	3.0 - 10 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	68.9 MPa	10000 psi	ASTM D638
Elongation at Break	8.0 %	8.0 %	ASTM D638
Elongation at Yield	3.5 %	3.5 %	ASTM D638
Flexural Strength	103 MPa	15000 psi	ASTM D790
Flexural Modulus	3.38 GPa	490 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Temperature 22.8 °C	2.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Izod Impact, Notched (ISO)	8.40 kJ/m <sup>2</sup> @Temperature 22.8 °C	4.00 ft-lb/in <sup>2</sup> @Temperature 73.0 °F	ISO 180/1A
Charpy Impact, Notched	0.840 J/cm <sup>2</sup> @Temperature 22.8 °C	4.00 ft-lb/in <sup>2</sup> @Temperature 73.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	110 °C	230 °F	ASTM D648

Thermal Properties (Tensile at 1.8 MPa (264 psi))	Metric	English	Comments
Vicat Softening Point	127 °C	260 °F	120°C/h, 50 N; ASTM D1525
UL RTI, Electrical	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 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	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 - 93.3 °C	160 - 200 °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	

## Contact Songhan Plastic Technology Co.,Ltd.

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