

## Polymer Resources PPX-MF-FR1 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, 190F 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-FR1-Modified-PPO-V-0-Flame-Retardant-Mineral-Reinforced.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PPX-MF-FR1-Modified-PPO-V-0-Flame-Retardant-Mineral-Reinforced.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.24 g/cc	1.24 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	15 - 25 g/10 min @Load 11.6 kg, Temperature 250 °C	15 - 25 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell R	121	121	ASTM D785
Tensile Strength at Break	61.4 MPa	8900 psi	ASTM D638
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Elongation at Break	30 %	30 %	ASTM D638
Elongation at Yield	7.0 %	7.0 %	ASTM D638
Flexural Strength	93.1 MPa	13500 psi	ASTM D790
Flexural Modulus	2.86 GPa	415 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

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	87.8 °C	190 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	82.2 °C	180 °F	ASTM D648
Vicat Softening Point	116 °C	240 °F	120°C/h, 50 N; ASTM D1525

Thermal Properties	V-0 Metric	V-0 English	Comments
	@Thickness 1.59 mm	@Thickness 0.0626 in	
	V-0	V-0	
	@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	221 - 271 °C	430 - 520 °F	
Middle Barrel Temperature	232 - 277 °C	450 - 530 °F	
Front Barrel Temperature	243 - 282 °C	470 - 540 °F	
Melt Temperature	246 - 282 °C	475 - 540 °F	
Mold Temperature	65.6 - 82.2 °C	150 - 180 °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.

Website : [www.lookpolymers.com](http://www.lookpolymers.com)

Email : [sales@lookpolymers.com](mailto:sales@lookpolymers.com)

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

Address : United North Road 215,Fengxian District, Shanghai City,China