

## Polymer Resources PPX-FR7 Modified-PPO, V-0 Flame Retardant

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

### Material Notes:

Modified-Polyphenylene Oxide, V-0 Flame Retardant, 260F HDTP  
 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-FR7-Modified-PPO-V-0-Flame-Retardant.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PPX-FR7-Modified-PPO-V-0-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.10 g/cc	1.10 g/cc	ASTM D792
Linear Mold Shrinkage	0.0050 - 0.0070 cm/cm	0.0050 - 0.0070 in/in	ASTM D955
Melt Flow	4.0 - 8.0 g/10 min @Load 11.6 kg, Temperature 250 °C	4.0 - 8.0 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	55.2 MPa	8000 psi	ASTM D638
Tensile Strength, Yield	62.1 MPa	9000 psi	ASTM D638
Flexural Strength	110 MPa	16000 psi	ASTM D790
Flexural Modulus	2.62 GPa	380 ksi	ASTM D790
Izod Impact, Notched	1.60 J/cm @Temperature 22.8 °C	3.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Gardner Impact	22.6 J	16.7 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	127 °C	260 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	121 °C	250 °F	ASTM D648
Flammability, UL94	V-0 @Thickness 1.59 mm	V-0 @Thickness 0.0626 in	
	V-0 @Thickness 3.17 mm	V-0 @Thickness 0.125 in	

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	

## Contact Songhan Plastic Technology Co.,Ltd.

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