

## Polymer Resources PPX-FR5 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, 225F HDT  
 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-FR5-Modified-PPO-V-0-Flame-Retardant.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PPX-FR5-Modified-PPO-V-0-Flame-Retardant.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.09 g/cc	1.09 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
Tensile Strength at Break	53.1 MPa	7700 psi	ASTM D638
Tensile Strength, Yield	55.2 MPa	8000 psi	ASTM D638
Elongation at Break	25 %	25 %	ASTM D638
Elongation at Yield	8.0 %	8.0 %	ASTM D638
Flexural Strength	79.3 MPa	11500 psi	ASTM D790
Flexural Modulus	2.34 GPa	340 ksi	ASTM D790
Izod Impact, Notched	1.07 J/cm @Temperature -30.6 °C	2.00 ft-lb/in @Temperature -23.0 °F	ASTM D256
	2.67 J/cm @Temperature 22.8 °C	5.00 ft-lb/in @Temperature 73.0 °F	ASTM D256
Charpy Impact, Notched	1.57 J/cm <sup>2</sup> @Temperature 22.8 °C	7.50 ft-lb/in <sup>2</sup> @Temperature 73.0 °F	ISO 179/1eA
Gardner Impact	16.9 J	12.5 ft-lb	ASTM D3029

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	107 °C	225 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Deflection Temperature at 1.8 MPa (264 psi)	182 °C	218 °F	ASTM D648
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 - 5VA	V-0 - 5VA	
	@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	227 - 277 °C	440 - 530 °F	
Middle Barrel Temperature	238 - 282 °C	460 - 540 °F	
Front Barrel Temperature	249 - 288 °C	480 - 550 °F	
Melt Temperature	260 - 288 °C	500 - 550 °F	
Mold Temperature	71.1 - 93.3 °C	160 - 200 °F	
Drying Temperature	93.3 - 98.9 °C	200 - 210 °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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