

## Polymer Resources PPX-FRG10 Modified PPO, UL 94 V-1, 10% Glass Reinforced (Unverified Data\*\*)

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 10% Glass Filled

### Material Notes:

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-FRG10-Modified-PPO-UL-94-V-1-10-Glass-Reinforced-nbspUnverified-Data.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PPX-FRG10-Modified-PPO-UL-94-V-1-10-Glass-Reinforced-nbspUnverified-Data.php)

Physical Properties	Metric	English	Comments
Density	1.15 g/cc	0.0415 lb/in <sup>3</sup>	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Melt Flow	1.0 - 6.0 g/10 min	1.0 - 6.0 g/10 min	ASTM D1238

Mechanical Properties	Metric	English	Comments
Tensile Strength at Break	77.2 MPa	11200 psi	ASTM D638
Tensile Strength, Yield	75.8 MPa	11000 psi	ASTM D638
Flexural Strength	117 MPa	16900 psi	ASTM D790
Flexural Modulus	3.72 GPa	540 ksi	ASTM D790
Izod Impact, Notched	0.854 J/cm	1.60 ft-lb/in	ASTM D256

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	132 °C	270 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	127 °C	260 °F	ASTM D648
Flammability, UL94	V-1	V-1	1/16 in
	V-1	V-1	1/8 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 Processing Properties	282 - 310 °C Metric	540 - 590 °F English	Comments
Mold Temperature	76.7 - 98.9 °C	170 - 210 °F	
Drying Temperature	104 - 110 °C	220 - 230 °F	
Dry Time	3 - 4 hour	3 - 4 hour	

## Contact Songhan Plastic Technology Co.,Ltd.

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