

## Polymer Resources PPX-G15 Modified-PPO, 15% Glass Reinforced, High Flow

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 20% Glass Filled

### Material Notes:

Modified-Polyphenylene Oxide, 10% Glass Reinforced, High Flow  
 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-G15-Modified-PPO-15-Glass-Reinforced-High-Flow.php](http://www.lookpolymers.com/polymer_Polymer-Resources-PPX-G15-Modified-PPO-15-Glass-Reinforced-High-Flow.php)

Physical Properties	Metric	English	Comments
Specific Gravity	1.17 g/cc	1.17 g/cc	ASTM D792
Linear Mold Shrinkage	0.0020 - 0.0050 cm/cm	0.0020 - 0.0050 in/in	ASTM D955
Melt Flow	1.0 - 8.0 g/10 min @Load 11.6 kg, Temperature 250 °C	1.0 - 8.0 g/10 min @Load 25.6 lb, Temperature 482 °F	ASTM D1238

Mechanical Properties	Metric	English	Comments
Hardness, Rockwell L	105	105	ASTM D785
Tensile Strength at Break	82.7 MPa	12000 psi	ASTM D638
Tensile Strength, Yield	82.7 MPa	12000 psi	ASTM D638
Elongation at Break	3.5 %	3.5 %	ASTM D638
Flexural Strength	121 MPa	17500 psi	ASTM D790
Flexural Modulus	4.31 GPa	625 ksi	ASTM D790
Izod Impact, Notched	0.694 J/cm @Temperature 22.8 °C	1.30 ft-lb/in @Temperature 73.0 °F	ASTM D256
	0.908 J/cm @Temperature -30.0 °C	1.70 ft-lb/in @Temperature -22.0 °F	ASTM D256
Charpy Impact, Notched	0.735 J/cm <sup>2</sup> @Temperature 22.8 °C	3.50 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)	127 °C	260 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	122 °C	252 °F	ASTM D648

Thermal Properties	Metric	English	Comments
Flammability, UL94	HB	HB	
	@Thickness 1.59 mm	@Thickness 0.0626 in	
	HB	HB	
	@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	260 - 304 °C	500 - 580 °F	
Middle Barrel Temperature	271 - 310 °C	520 - 590 °F	
Front Barrel Temperature	282 - 316 °C	540 - 600 °F	
Melt Temperature	288 - 316 °C	550 - 600 °F	
Mold Temperature	71.1 - 104 °C	160 - 220 °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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