

Polymer Resources PPX-G30 Modified-PPO, 30% Glass Reinforced

Category : Polymer , Thermoplastic , Polyphenylene Ether/PPO , Polyphenylene Ether, 30% Glass Filled

Material Notes:

Modified-Polyphenylene Oxide, 30% Glass Reinforced
 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-G30-Modified-PPO-30-Glass-Reinforced.php

Physical Properties	Metric	English	Comments
Specific Gravity	1.28 g/cc	1.28 g/cc	ASTM D792
Linear Mold Shrinkage	0.0010 - 0.0040 cm/cm	0.0010 - 0.0040 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	108	108	ASTM D785
Tensile Strength at Break	103 MPa	15000 psi	ASTM D638
Tensile Strength, Yield	103 MPa	15000 psi	ASTM D638
Elongation at Break	2.0 %	2.0 %	ASTM D638
Flexural Strength	131 MPa	19000 psi	ASTM D790
Flexural Modulus	6.89 GPa	1000 ksi	ASTM D790
Izod Impact, Notched	0.534 J/cm @Temperature -30.0 °C	1.00 ft-lb/in @Temperature -22.0 °F	ASTM D256
	0.801 J/cm @Temperature 22.8 °C	1.50 ft-lb/in @Temperature 73.0 °F	ASTM D256
Charpy Impact, Notched	0.630 J/cm ² @Temperature 22.8 °C	3.00 ft-lb/in ² @Temperature 73.0 °F	ISO 179/1eA

Thermal Properties	Metric	English	Comments
Deflection Temperature at 0.46 MPa (66 psi)	149 °C	300 °F	ASTM D648
Deflection Temperature at 1.8 MPa (264 psi)	143 °C	290 °F	ASTM D648

Thermal Properties	Metric	English	Comments
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	HB	HB	
	@Thickness 1.50 mm	@Thickness 0.0591 in	
	HB	HB	
	@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	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	293 - 316 °C	560 - 600 °F	
Mold Temperature	82.2 - 116 °C	180 - 240 °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
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Contact Songhan Plastic Technology Co.,Ltd.

Website : www.lookpolymers.com

Email : sales@lookpolymers.com

Tel : +86 021-51131842

Mobile : +86 13061808058

Skype : lookpolymers

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