PRL PPX-G10-HF

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-G10-HF is a Polyphenylene Ether + PS (PPE+PS) product filled with 10% glass fiber. It can be processed by injection molding and is available in North America.
Characteristics include:
RoHS Compliant
Heat Resistant
Hydrolytically Stable
Moisture Resistant

General Information			
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Features	Good Flow Hydrolytically Stable Low to No Water Absorption Medium Heat Resistance		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.12	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	5.0 to 10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.20 to 0.50	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 3.18 mm	68.9	MPa	
Break, 3.18 mm	68.9	MPa	
Tensile Elongation (Break, 3.18 mm)	4.0	%	ASTM D638
Flexural Modulus (3.18 mm)	3650	MPa	ASTM D790
Flexural Strength (3.18 mm)	96.5	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact			ASTM D256
-30°C, 3.18 mm	53	J/m	
23°C, 3.18 mm	80	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	127	°C	
1.8 MPa, Unannealed, 3.18 mm	121	°C	

Vicat Softening Temperature	135	°C	ASTM D1525 [1]
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Injection	**Nominal Value**	**Unit**	
Drying Temperature	104 to 110	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	260 to 304	°C	
Middle Temperature	271 to 310	°C	
Front Temperature	282 to 316	°C	
Processing (Melt) Temp	288 to 316	°C	
Mold Temperature	71.1 to 104	°C	
NOTE			
1.	Rate B (120°C/h), Loading 2 (50 N)		

Recommended distributors for this material

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