PRL PPX-FRG30

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-FRG30 is a Polyphenylene Ether + PS (PPE+PS) product filled with 30% glass fiber. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
RoHS Compliant
Flame Retardant
Halogen Free
Heat Resistant

General Information			
UL YellowCard	E113219-219260		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Bromine Free Chlorine Free Flame Retardant Medium Heat Resistance Self Extinguishing		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.31	g/cm^3	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	1.0 to 8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.10 to 0.40	%	ASTM D955
Hardness	**Nominal Value**	**Unit**	**Test Method**
Rockwell Hardness (L-Scale)	108		ASTM D785
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 3.18 mm	117	MPa	
Break, 3.18 mm	110	MPa	
Tensile Elongation (Break, 3.18 mm)	5.0	%	ASTM D638
Flexural Modulus (3.18 mm)	7240	MPa	ASTM D790
Flexural Strength (3.18 mm)	141	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Charpy Notched Impact Strength (23°C)	7.8	kJ/m^2	ISO 179/1

Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	75	J/m	
23°C, 3.18 mm	96	J/m	
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	135	°C	
1.8 MPa, Unannealed, 3.18 mm	129	°C	
RTI Elec			UL 746
1.60 mm	65.0	°C	
1.70 mm	65.0	°C	
RTI Imp			UL 746
1.60 mm	65.0	°C	
1.70 mm	65.0	°C	
RTI Str			UL 746
1.60 mm	65.0	°C	
1.70 mm	65.0	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
	V-1		
1.60 mm	5VA		
1.70 mm	V-1		
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	249 to 299	°C	
Middle Temperature	260 to 304	°C	
Front Temperature	271 to 310	°C	
Processing (Melt) Temp	288 to 316	°C	
Mold Temperature	71.1 to 98.9	°C	

Recommended distributors for this material

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