

PRL PPX-FRG20

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-FRG20 is a Polyphenylene Ether + PS (PPE+PS) product filled with 20% 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	E113219-219259		
Filler / Reinforcement	Glass Fiber,20% 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	1.23	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)	0.20 to 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	106		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	96.5	MPa	
Break, 3.18 mm	96.5	MPa	
Tensile Elongation (Break, 3.18 mm)	5.0	%	ASTM D638
Flexural Modulus (3.18 mm)	4960	MPa	ASTM D790
Flexural Strength (3.18 mm)	138	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.3	kJ/m ²	ISO 179

Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	80	J/m	
23°C, 3.18 mm	91	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	132	°C	
1.8 MPa, Unannealed, 3.18 mm	127	°C	
RTI Elec (1.70 mm)	65.0	°C	UL 746
RTI Imp (1.70 mm)	65.0	°C	UL 746
RTI Str (1.70 mm)	65.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.70 mm, ALL)	V-1		UL 94
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	

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