

PRL PPX-G30

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-G30 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
- Heat Resistant
- Hydrolytically Stable
- Moisture Resistant

General Information			
UL YellowCard	E113219-219261		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	High Heat Resistance		
	Hydrolytically Stable		
	Low to No Water Absorption		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.28	g/cm³	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	110	MPa	
Break, 3.18 mm	110	MPa	
Tensile Elongation (Break, 3.18 mm)	2.0	%	ASTM D638
Flexural Modulus (3.18 mm)	7580	MPa	ASTM D790
Flexural Strength (3.18 mm)	159	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	6.3	kJ/m²	ISO 179/1
Notched Izod Impact			
-30°C, 3.18 mm	53	J/m	ASTM D256
23°C, 3.18 mm	80	J/m	ASTM D256

23°C	6.3	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	149	°C	
1.8 MPa, Unannealed, 3.18 mm	143	°C	
Vicat Softening Temperature	152	°C	ASTM D1525 ¹
RTI Elec			UL 746
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
RTI Imp			UL 746
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
RTI Str			UL 746
1.50 mm	65.0	°C	
3.00 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
1.50 mm, ALL	HB		
3.00 mm, ALL	HB		
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	293 to 316	°C	
Mold Temperature	82.2 to 116	°C	
NOTE			

1. Rate B (120°C/h), Loading 2 (50 N)

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