

PRL PPX-GP1

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-GP1 is a Polyphenylene Ether + PS (PPE+PS) product. 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	E113219-219262		
Features	General Purpose		
	Hydrolytically Stable		
	Low to No Water Absorption		
	Medium Heat Resistance		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	4.0 to 9.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.50 to 0.70	%	
Across Flow : 3.18 mm	0.50 to 0.70	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	55.2	MPa	
Break, 3.18 mm	48.3	MPa	
Tensile Elongation			ASTM D638
Yield, 3.18 mm	8.0	%	
Break, 3.18 mm	30	%	
Flexural Modulus (3.18 mm)	2410	MPa	ASTM D790
Flexural Strength (3.18 mm)	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1
Notched Izod Impact			
-40°C, 3.18 mm	130	J/m	ASTM D256
23°C, 3.18 mm	210	J/m	ASTM D256
-30°C	4.2	kJ/m ²	ISO 180/1A
23°C	15	kJ/m ²	ISO 180/1A
Gardner Impact (3.18 mm)	16.9	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	129	°C	
1.8 MPa, Unannealed, 3.18 mm	121	°C	
Vicat Softening Temperature	146	°C	ASTM D1525 ¹
RTI Elec (1.50 mm)	65.0	°C	UL 746
RTI Imp (1.50 mm)	65.0	°C	UL 746
RTI Str (1.50 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 (1.50 mm)	HB		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 93.3	°C	
NOTE			
1.	Rate B (120°C/h), Loading 2 (50 N)		

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China



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