

PRL PPX-G10

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-G10 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	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	1.14	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)	104		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	72.4	MPa	
Break, 3.18 mm	72.4	MPa	
Tensile Elongation (Break, 3.18 mm)	4.0	%	ASTM D638
Flexural Modulus (3.18 mm)	3450	MPa	ASTM D790
Flexural Strength (3.18 mm)	103	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	8.4	kJ/m ²	ISO 179/1
Notched Izod Impact			
-30°C, 3.18 mm	80	J/m	ASTM D256
23°C, 3.18 mm	110	J/m	ASTM D256
23°C	8.4	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	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)

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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

