

PRL PPX-GP3

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-GP3 is a Polyphenylene Ether + PS (PPE+PS) product. 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			
Features	General Purpose		
	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	1.05	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	12 to 18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50 to 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	114		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	46.9	MPa	
Break, 3.18 mm	43.4	MPa	
Tensile Elongation			ASTM D638
Yield, 3.18 mm	3.0	%	
Break, 3.18 mm	25	%	
Flexural Modulus (3.18 mm)	2210	MPa	ASTM D790
Flexural Strength (3.18 mm)	72.4	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	15	kJ/m²	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/m²	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	113	°C	
1.8 MPa, Unannealed, 3.18 mm	107	°C	
Vicat Softening Temperature	127	°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	243 to 293	°C	
Middle Temperature	254 to 299	°C	
Front Temperature	266 to 304	°C	
Processing (Melt) Temp	274 to 302	°C	
Mold Temperature	65.6 to 98.9	°C	
NOTE			

1. Rate B (120°C/h), Loading 2 (50 N)

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