

PRL PPX-GP4

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-GP4 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

General Information			
Features	General Purpose		
	Medium Heat Resistance		
RoHS Compliance	RoHS Compliant		
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)	20 to 30	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	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	34.5	MPa	
Break, 3.18 mm	34.5	MPa	
Tensile Elongation (Break, 3.18 mm)	50	%	ASTM D638
Flexural Modulus (3.18 mm)	1760	MPa	ASTM D790
Flexural Strength (Break, 3.18 mm)	48.3	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	16	kJ/m ²	ISO 179/1
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	130	J/m	
23°C, 3.18 mm	270	J/m	
Gardner Impact (3.18 mm)	14.1	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	98.9	°C	
1.8 MPa, Unannealed, 3.18 mm	93.3	°C	
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	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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