

PRL PPX/NY-GP1

Polyphenylene Ether + PS + Nylon

Polymer Resources Ltd.

Message:

PRL PPX/NY-GP1 is a Polyphenylene Ether + PS + Nylon (PPE+PS+Nylon) product. It can be processed by injection molding and is available in North America.

Characteristics include:

Flame Rated

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	1.08	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/3.8 kg)	20 to 40	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.90 to 1.2	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	57.9	MPa	
Break, 3.18 mm	55.2	MPa	
Flexural Modulus (3.18 mm)	2070	MPa	ASTM D790
Flexural Strength (3.18 mm)	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	210	J/m	ASTM D256
Gardner Impact (3.18 mm)	28.2	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	141	°C	
1.8 MPa, Unannealed, 3.18 mm	113	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.59 mm	HB		
3.18 mm	HB		
Injection	Nominal Value	Unit	
Drying Temperature	93.3 to 107	°C	
Drying Time	3.0 to 4.0	hr	

Drying Time, Maximum	8.0	hr
Rear Temperature	260 to 299	°C
Middle Temperature	271 to 299	°C
Front Temperature	277 to 299	°C
Processing (Melt) Temp	277 to 299	°C
Mold Temperature	65.6 to 93.3	°C

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