

PRL PPX/NY-G30

Polyphenylene Ether + PS + Nylon

Polymer Resources Ltd.

Message:

PRL PPX/NY-G30 is a Polyphenylene Ether + PS + Nylon (PPE+PS+Nylon) product filled with 30% glass fiber. It can be processed by injection molding and is available in North America. Primary characteristic: rohs compliant.

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.33	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/3.8 kg)	1.0 to 4.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.20 to 0.40	%	
Across Flow : 3.18 mm	0.50 to 0.90	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	120		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	148	MPa	
Break, 3.18 mm	148	MPa	
Tensile Elongation (Break, 3.18 mm)	6.0	%	ASTM D638
Flexural Modulus (3.18 mm)	8140	MPa	ASTM D790
Flexural Strength (3.18 mm)	221	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-30°C, 3.18 mm	53	J/m	
23°C, 3.18 mm	80	J/m	
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	232	°C	
1.8 MPa, Unannealed, 3.18 mm	227	°C	
Vicat Softening Temperature	229	°C	ASTM D1525 ¹
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	266 to 304	°C
Middle Temperature	271 to 304	°C
Front Temperature	277 to 316	°C
Processing (Melt) Temp	282 to 304	°C
Mold Temperature	79.4 to 121	°C

NOTE

1. Rate B (120°C/h), Loading 2 (50 N)

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