

# PRL PPX/NY-G20

Polyphenylene Ether + PS + Nylon  
Polymer Resources Ltd.

Message:

PRL PPX/NY-G20 is a Polyphenylene Ether + PS + Nylon (PPE+PS+Nylon) product filled with 20% 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,20% Filler by Weight		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.25	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/3.8 kg)	1.0 to 4.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.40 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	114	MPa	
Break, 3.18 mm	114	MPa	
Flexural Modulus (3.18 mm)	5380	MPa	ASTM D790
Flexural Strength (3.18 mm)	169	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	48	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	210	°C	
1.8 MPa, Unannealed, 3.18 mm	221	°C	
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	268 to 302	°C	
Middle Temperature	274 to 302	°C	
Front Temperature	279 to 302	°C	
Processing (Melt) Temp	279 to 302	°C	
Mold Temperature	79.4 to 121	°C	

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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



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