

PRL PPX-G15

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-G15 is a polyphenylene ether + PS (PPE + PS) product, which contains a 15% glass fiber reinforced material. It can be processed by injection molding and is available in North America.

Features include:

ROHS certification

moisture resistance

Heat resistance

Hydrolytic stability

General Information			
Filler / Reinforcement	Glass fiber reinforced material, 15% filler by weight		
Features	Heat resistance, medium		
	Hydrolysis stability		
	Low or no water absorption		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.17	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	1.0 - 8.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.20 - 0.50	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (L-Scale)	105		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18mm	82.7	MPa	ASTM D638
Fracture, 3.18mm	82.7	MPa	ASTM D638
Tensile Elongation (Break, 3.18 mm)	3.5	%	ASTM D638
Flexural Modulus (3.18 mm)	4310	MPa	ASTM D790
Flexural Strength (3.18 mm)	121	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	7.4	kJ/m ²	ISO 179/1
Notched Izod Impact			
-30°C, 3.18 mm	69	J/m	ASTM D256
23°C, 3.18 mm	91	J/m	ASTM D256
23°C	7.4	kJ/m ²	ISO 180/1A
Thermal	Nominal Value	Unit	Test Method

Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.18mm	132	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	127	°C	ASTM D648
Vicat Softening Temperature	141	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Additional Information			
Preliminary Data			
Injection	Nominal Value	Unit	
Drying Temperature	104 - 110	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	260 - 304	°C	
Middle Temperature	271 - 310	°C	
Front Temperature	282 - 316	°C	
Processing (Melt) Temp	288 - 316	°C	
Mold Temperature	71.1 - 104	°C	
NOTE			

1. 标准 B (120°C/h), 载荷2 (50N)

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