

PRL PPX-GP1-(color)-EN

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-GP1-(color)-EN is a polyphenylene ether PS (PPE PS) product. It can be processed by extrusion and is available in North America.

Features include:

flame retardant/rated flame

ROHS certification

moisture resistance

Heat resistance

Hydrolytic stability

General Information			
UL YellowCard	E113219-219262		
Features	Heat resistance, medium		
	Hydrolysis stability		
	General		
	Low or no water absorption		
RoHS Compliance	RoHS compliance		
UL File Number	E113219		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	4.0 - 9.0	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow: 3.18mm	0.50 - 0.70	%	ASTM D955
Transverse flow: 3.18mm	0.50 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18mm	55.2	MPa	ASTM D638
Fracture, 3.18mm	48.3	MPa	ASTM D638
Tensile Elongation			ASTM D638
Yield, 3.18mm	8.0	%	ASTM D638
Fracture, 3.18mm	30	%	ASTM D638
Flexural Modulus (3.18 mm)	2410	MPa	ASTM D790
Flexural Strength (3.18 mm)	89.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method

Charpy Notched Impact Strength (23°C)	15	kJ/m ²	ISO 179/1
Notched Izod Impact			
-40°C, 3.18 mm	130	J/m	ASTM D256
23°C, 3.18 mm	210	J/m	ASTM D256
-30°C	4.2	kJ/m ²	ISO 180/1A
23°C	15	kJ/m ²	ISO 180/1A
Dart Drop Impact (3.18 mm)	16.9	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, unannealed, 3.18mm	129	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	121	°C	ASTM D648
Vicat Softening Temperature	146	°C	ASTM D1525 ¹
RTI Elec (1.50 mm)	65.0	°C	UL 746
RTI Imp (1.50 mm)	65.0	°C	UL 746
RTI (1.50 mm)	65.0	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	Nominal Value	Unit	Test Method
Flame Rating (1.50 mm)	HB		UL 94
Extrusion	Nominal Value	Unit	
Drying Temperature	104 - 110	°C	
Drying Time	3.0 - 4.0	hr	
Cylinder Zone 1 Temp.	204	°C	
Cylinder Zone 2 Temp.	227	°C	
Cylinder Zone 3 Temp.	227	°C	
Melt Temperature	227 - 254	°C	
Die Temperature	249	°C	
Extrusion instructions			
Do not exceed 8 hour drying time.			
NOTE			
1.	标准 B (120°C/h), 载荷2 (50N)		

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