

PRL PPX-FR2-(color)-EN

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-FR2-(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

Flame Retardant

Halogen-free

Heat resistance

General Information			
UL YellowCard	E113219-219253		
Additive	Flame retardancy		
Features	Chlorine Free		
	Heat resistance, medium		
	Bromine-free		
	Self-extinguishing		
	Flame retardancy		
RoHS Compliance	RoHS compliance		
UL File Number	E113219		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.09	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	20 - 40	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50 - 0.70	%	ASTM D955
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	115		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18mm	50.3	MPa	ASTM D638
Fracture, 3.18mm	49.0	MPa	ASTM D638
Tensile Elongation (Break, 3.18 mm)	35	%	ASTM D638
Flexural Modulus (3.18 mm)	2410	MPa	ASTM D790
Flexural Strength (3.18 mm)	82.7	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	130	J/m	ASTM D256

23°C, 3.18 mm	270	J/m	ASTM D256
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	98.9	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	93.3	°C	ASTM D648
RTI Elec			UL 746
3.00 mm	65.0	°C	UL 746
6.00 mm	65.0	°C	UL 746
RTI Imp			UL 746
3.00 mm	65.0	°C	UL 746
6.00 mm	65.0	°C	UL 746
RTI			UL 746
3.00 mm	65.0	°C	UL 746
6.00 mm	65.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
3.00 mm	V-1		UL 94
6.00 mm	V-1		UL 94
Extrusion	Nominal Value	Unit	
Drying Temperature	98.9 - 104	°C	
Drying Time	3.0 - 4.0	hr	
Cylinder Zone 1 Temp.	177	°C	
Cylinder Zone 2 Temp.	193	°C	
Cylinder Zone 3 Temp.	193	°C	
Melt Temperature	199 - 227	°C	
Die Temperature	216	°C	
Extrusion instructions			

Do not exceed 8 hour drying time.

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