

PRL PPX-EN-FR3

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-EN-FR3 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	E113219-219255		
Additive	Flame retardancy		
Features	Chlorine Free		
	Heat resistance, medium		
	Bromine-free		
	Flame retardancy		
RoHS Compliance	RoHS compliance		
UL File Number	E113219		
Forms	Particle		
Processing Method	Extrusion		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.06	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	4.0 - 8.0	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)	119		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18mm	64.1	MPa	ASTM D638
Fracture, 3.18mm	62.1	MPa	ASTM D638
Tensile Elongation (Break, 3.18 mm)	25	%	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
Notched Izod Impact			ASTM D256
-40°C, 3.18 mm	130	J/m	ASTM D256
23°C, 3.18 mm	210	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	129	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	121	°C	ASTM D648
RTI Elec			UL 746
0.750 mm	65.0	°C	UL 746
1.50 mm	110	°C	UL 746
1.70 mm	110	°C	UL 746
3.00 mm	110	°C	UL 746
RTI Imp			UL 746
0.750 mm	65.0	°C	UL 746
1.50 mm	105	°C	UL 746
1.70 mm	105	°C	UL 746
3.00 mm	105	°C	UL 746
RTI			UL 746
0.750 mm	65.0	°C	UL 746
1.50 mm	110	°C	UL 746
1.70 mm	110	°C	UL 746
3.00 mm	110	°C	UL 746
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+17	ohms·cm	ASTM D257
Dielectric Strength (3.00 mm)	24	kV/mm	ASTM D149
Comparative Tracking Index (CTI) (0.750 mm)	PLC 2		UL 746
High Amp Arc Ignition (HAI)			UL 746
1.50 mm	PLC 1		UL 746
1.70 mm	PLC 1		UL 746
3.00 mm	PLC 1		UL 746
High Voltage Arc Tracking Rate (HVTR) (0.750 mm)	PLC 3		UL 746
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 0		UL 746
1.70 mm	PLC 0		UL 746
3.00 mm	PLC 0		UL 746
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.750 mm, BK	V-2		UL 94
1.50 mm, ALL	V-1		UL 94
1.70 mm, ALL	V-1		UL 94
3.00 mm, ALL	V-1		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 hours drying time.

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Recommended distributors for this material

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

