

PRL PPX-SF1

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-SF1 is a Polyphenylene Ether + PS (PPE+PS) product. It can be processed by structural foam molding and is available in North America. Typical application: Foam.
Characteristics include:
Flame Rated
RoHS Compliant
Flame Retardant
Halogen Free
Heat Resistant

General Information			
UL YellowCard	E113219-219264		
Additive	Flame Retardant		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Foamable		
	Medium Heat Resistance		
	Self Extinguishing		
Uses	Structural Foam		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Structural Foam Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.12	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	25 to 50	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.60 to 0.90	%	
Across Flow : 3.18 mm	0.60 to 0.90	%	
Hardness	Nominal Value	Unit	Test Method
Rockwell Hardness (R-Scale)	121		ASTM D785
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	63.4	MPa	
Break, 3.18 mm	62.1	MPa	
Flexural Modulus (3.18 mm)	3170	MPa	ASTM D790
Flexural Strength (Break, 3.18 mm)	82.7	MPa	ASTM D790

Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	110	J/m	ASTM D256
Gardner 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, 3.18 mm	104	°C	
1.8 MPa, Unannealed, 3.18 mm	98.9	°C	
RTI Elec			UL 746
3.00 mm	65.0	°C	
3.80 mm	65.0	°C	
RTI Imp			UL 746
3.00 mm	65.0	°C	
3.80 mm	65.0	°C	
RTI Str			UL 746
3.00 mm	65.0	°C	
3.80 mm	65.0	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
3.00 mm	V-0		
	V-0		
3.80 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	71.1 to 82.2	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	232 to 260	°C	
Middle Temperature	271 to 304	°C	
Front Temperature	271 to 304	°C	
Processing (Melt) Temp	260 to 288	°C	
Mold Temperature	37.8 to 82.2	°C	

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