PRL PPX-FR5

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-FR5 is a Polyphenylene Ether + PS (PPE+PS) product. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
RoHS Compliant
Flame Retardant
Halogen Free
Heat Resistant

General Information			
UL YellowCard	E113219-219256		
Additive	Flame Retardant		
Features	Bromine Free Chlorine Free Flame Retardant Medium Heat Resistance Self Extinguishing		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.09	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	15 to 25	g/10 min	ASTM D1238
Molding Shrinkage			ASTM D955
Flow : 3.18 mm	0.50 to 0.70	%	
Across Flow : 3.18 mm	0.50 to 0.70	%	
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 3.18 mm	55.2	MPa	
Break, 3.18 mm	53.1	MPa	
Tensile Elongation			ASTM D638
Yield, 3.18 mm	8.0	%	
Break, 3.18 mm	25	%	
Flexural Modulus (3.18 mm)	2340	MPa	ASTM D790
Flexural Strength (3.18 mm)	79.3	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**

Charpy Notched Impact Strength (23°C)	16	kJ/m²	ISO 179/1
Notched Izod Impact			ASTM D256
-30°C, 3.18 mm	110	J/m	
23°C, 3.18 mm	270	J/m	
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	107	°C	
1.8 MPa, Unannealed, 3.18 mm	102	°C	
Vicat Softening Temperature	127	°C	ASTM D1525 [1]
RTI Elec			UL 746
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
RTI Imp			UL 746
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
RTI Str			UL 746
1.50 mm	65.0	°C	
3.00 mm	65.0	°C	
Electrical	**Nominal Value**	**Unit**	**Test Method**
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Flammability	**Nominal Value**	**Unit**	**Test Method**
Flame Rating			UL 94
1.50 mm, ALL	V-0		
	V-0		
3.00 mm, ALL	5VA		
Injection	**Nominal Value**	**Unit**	
Drying Temperature	93.3 to 98.9	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	227 to 277	°C	
Middle Temperature	238 to 282	°C	
Front Temperature	249 to 288	°C	
Processing (Melt) Temp	260 to 288	°C	
Mold Temperature	71.1 to 93.3	°C	
NOTE			
1.	Rate B (120°C/h), Loading 2 (50 N)		

Recommended distributors for this material

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