

# PRL PPX-FR6

Polyphenylene Ether + PS

Polymer Resources Ltd.

## Message:

PRL PPX-FR6 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	E113219-219257		
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	1.10	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	4.0 to 8.0	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	62.1	MPa	
Break, 3.18 mm	55.2	MPa	
Tensile Elongation (Break, 3.18 mm)	20	%	ASTM D638
Flexural Modulus (3.18 mm)	2620	MPa	ASTM D790
Flexural Strength (3.18 mm)	110	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Charpy Notched Impact Strength (23°C)	13	kJ/m <sup>2</sup>	ISO 179/1
Notched Izod Impact (23°C, 3.18 mm)	160	J/m	ASTM D256

Gardner Impact (3.18 mm)	22.6	J	ASTM D3029
<b>Thermal</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	127	°C	
1.8 MPa, Unannealed, 3.18 mm	121	°C	
Vicat Softening Temperature	141	°C	ASTM D1525 <sup>1</sup>
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	
<b>Electrical</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Volume Resistivity	1.0E+16	ohms · cm	ASTM D257
<b>Flammability</b>	<b>Nominal Value</b>	<b>Unit</b>	<b>Test Method</b>
Flame Rating			UL 94
1.50 mm	V-0		
3.00 mm	V-0		
<b>Injection</b>	<b>Nominal Value</b>	<b>Unit</b>	
Drying Temperature	104 to 110	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	249 to 299	°C	
Middle Temperature	260 to 304	°C	
Front Temperature	271 to 310	°C	
Processing (Melt) Temp	288 to 316	°C	
Mold Temperature	71.1 to 98.9	°C	
<b>NOTE</b>			
1.	Rate B (120°C/h), Loading 2 (50 N)		

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