

PRL PPX-FR7

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-FR7 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			
Additive	Flame Retardant		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	High Heat Resistance		
	Self Extinguishing		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.07	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	1.0 to 3.0	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50 to 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	70.3	MPa	
Break, 3.18 mm	66.9	MPa	
Flexural Modulus (3.18 mm)	2340	MPa	ASTM D790
Flexural Strength (3.18 mm)	98.6	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (3.18 mm)	430	J/m	ASTM D256
Gardner Impact (3.18 mm)	22.6	J	ASTM D3029
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	149	°C	
1.8 MPa, Unannealed, 3.18 mm	141	°C	
Flammability	Nominal Value		Test Method

Flame Rating		UL 94
1.50 mm	V-0	
3.00 mm	V-0	
Injection	Nominal Value	Unit
Drying Temperature	104 to 110	°C
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	260 to 304	°C
Middle Temperature	271 to 310	°C
Front Temperature	282 to 316	°C
Processing (Melt) Temp	293 to 316	°C
Mold Temperature	82.2 to 116	°C

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