

PRL PPX-MF-FR1

Polyphenylene Ether + PS

Polymer Resources Ltd.

Message:

PRL PPX-MF-FR1 is a Polyphenylene Ether + PS (PPE+PS) product filled with mineral. It can be processed by injection molding and is available in North America.

Characteristics include:

RoHS Compliant

Flame Retardant

Halogen Free

Heat Resistant

General Information			
Filler / Reinforcement	Mineral		
Additive	Flame Retardant		
Features	Bromine Free		
	Chlorine Free		
	Flame Retardant		
	Medium Heat Resistance		
	Self Extinguishing		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.24	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/11.6 kg)	15 to 25	g/10 min	ASTM D1238
Molding Shrinkage - Flow	0.50 to 0.70	%	ASTM D955
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	62.1	MPa	
Break, 3.18 mm	55.2	MPa	
Tensile Elongation			ASTM D638
Yield, 3.18 mm	7.0	%	
Break, 3.18 mm	30	%	
Flexural Modulus (3.18 mm)	2860	MPa	ASTM D790
Flexural Strength (3.18 mm)	96.5	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	110	J/m	ASTM D256

Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	87.8	°C	
1.8 MPa, Unannealed, 3.18 mm	82.2	°C	
Vicat Softening Temperature	116	°C	ASTM D1525 ¹
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
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	221 to 271	°C	
Middle Temperature	232 to 277	°C	
Front Temperature	243 to 282	°C	
Processing (Melt) Temp	246 to 282	°C	
Mold Temperature	65.6 to 82.2	°C	
NOTE			
1.	Rate B (120°C/h), Loading 2 (50 N)		

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