

PRL PCSF-FR1

Polycarbonate
Polymer Resources Ltd.

Message:

PRL PCSF-FR1 is a Polycarbonate (PC) product filled with 10% glass fiber. 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
- Heat Resistant
- Impact Resistant

General Information			
UL YellowCard	E113219-219249		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Foamable		
	Good Impact Resistance		
	High Heat Resistance		
	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	1.27	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	5.0 to 12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.30 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	65.5	MPa	
Break, 3.18 mm	63.1	MPa	
Flexural Modulus (3.18 mm)	3790	MPa	ASTM D790
Flexural Strength (3.18 mm)	109	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	143	°C	
1.8 MPa, Unannealed, 3.18 mm	138	°C	
RTI Elec (6.00 mm)	80.0	°C	UL 746
RTI Imp (6.00 mm)	80.0	°C	UL 746
RTI Str (6.00 mm)	80.0	°C	UL 746
Flammability	Nominal Value		Test Method
Flame Rating (6.00 mm, ALL)	V-0		UL 94
Injection	Nominal Value	Unit	
Drying Temperature	118 to 124	°C	
Drying Time	3.0 to 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	254 to 266	°C	
Middle Temperature	293 to 310	°C	
Front Temperature	293 to 310	°C	
Processing (Melt) Temp	288 to 316	°C	
Mold Temperature	71.1 to 104	°C	

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Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

