PRL PC-FR2-TFE

Polycarbonate

Polymer Resources Ltd.

Message:

PRL PC-FR2-TFE is a Polycarbonate (PC) product. It can be processed by injection molding and is available in North America.
Characteristics include:
Flame Rated
RoHS Compliant
Flame Retardant
Lubricated

General Information			
UL YellowCard	E113219-101051255		
Additive	Flame Retardant PTFE Lubricant (5%)		
Features	Flame Retardant Lubricated		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.26	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	9.0 to 16	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50 to 1.0	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 3.18 mm	56.9	MPa	
Break, 3.18 mm	56.9	MPa	
Tensile Elongation (Yield, 3.18 mm)	> 10	%	ASTM D638
Flexural Modulus (3.18 mm)	2410	MPa	ASTM D790
Flexural Strength (3.18 mm)	82.7	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	120	J/m	ASTM D256
Gardner Impact (3.18 mm)	36.2	J	ASTM D3029
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	135	°C	
1.8 MPa, Unannealed, 3.18 mm	129	°C	
RTI Elec			UL 746

1.60 mm	80.0	°C	
3.00 mm	80.0	°C	
RTI Imp			UL 746
1.60 mm	80.0	°C	
3.00 mm	80.0	°C	
RTI Str			UL 746
1.60 mm	80.0	°C	
3.00 mm	80.0	°C	

Flammability	Nominal Value	Test Method
Flame Rating		UL 94
1.60 mm	V-2	
3.00 mm	V-0	

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	271 to 293	°C
Middle Temperature	282 to 304	°C
Front Temperature	293 to 316	°C
Processing (Melt) Temp	288 to 316	°C
Mold Temperature	76.7 to 98.9	°C

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

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