

PRL TP-IGFR-G30

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TP-IGFR-G30 is a Polybutylene Terephthalate (PBT) product filled with 30% glass fiber. It can be processed by injection molding and is available in North America.

Characteristics include:

- Flame Rated
- RoHS Compliant
- Flame Retardant
- Heat Resistant
- Warp Resistant

General Information			
UL YellowCard	E113219-102379223		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	High Heat Resistance		
	Low Warpage		
	Self Extinguishing		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.57	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	5.0 to 15	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.40 to 0.80	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	110	MPa	
Break, 3.18 mm	110	MPa	
Flexural Modulus (3.18 mm)	6890	MPa	ASTM D790
Flexural Strength (Break, 3.18 mm)	179	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	199	°C	
1.8 MPa, Unannealed, 3.18 mm	157	°C	

RTI Elec		UL 746
1.50 mm	75.0	°C
3.00 mm	75.0	°C
RTI Imp		UL 746
1.50 mm	75.0	°C
3.00 mm	75.0	°C
RTI Str		UL 746
1.50 mm	75.0	°C
3.00 mm	75.0	°C
Electrical	Nominal Value	Test Method
Comparative Tracking Index (CTI) (1.50 mm)	PLC 3	UL 746
High Amp Arc Ignition (HAI)		UL 746
1.50 mm	PLC 2	
3.00 mm	PLC 0	
Hot-wire Ignition (HWI)		UL 746
1.50 mm	PLC 0	
3.00 mm	PLC 0	
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	116 to 121	°C
Drying Time	3.0 to 4.0	hr
Drying Time, Maximum	8.0	hr
Rear Temperature	238 to 254	°C
Middle Temperature	243 to 260	°C
Front Temperature	249 to 266	°C
Processing (Melt) Temp	232 to 260	°C
Mold Temperature	71.1 to 87.8	°C

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