

PRL TP-FR-G30

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TP-FR-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

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	High Heat Resistance		
	Self Extinguishing		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.62	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	9.0 to 20	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	121	MPa	
Break, 3.18 mm	121	MPa	
Flexural Modulus (3.18 mm)	9650	MPa	ASTM D790
Flexural Strength (Break, 3.18 mm)	186	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	210	°C	
1.8 MPa, Unannealed, 3.18 mm	199	°C	
RTI Elec			UL 746
0.850 mm	140	°C	

1.60 mm	140	°C	
2.30 mm	140	°C	
3.00 mm	140	°C	
RTI Imp			UL 746
0.850 mm	130	°C	
1.60 mm	130	°C	
2.30 mm	130	°C	
3.00 mm	130	°C	
RTI Str			UL 746
0.850 mm	140	°C	
1.60 mm	140	°C	
2.30 mm	140	°C	
3.00 mm	140	°C	
Electrical	Nominal Value	Unit	Test Method
Volume Resistivity	1.0E+16	ohms·cm	ASTM D257
Dielectric Strength (0.850 mm)	23	kV/mm	ASTM D149
Arc Resistance (0.850 mm)	PLC 6		ASTM D495
Comparative Tracking Index (CTI) (0.850 mm)	PLC 2		UL 746
High Amp Arc Ignition (HAI)			UL 746
0.850 mm	PLC 0		
1.60 mm	PLC 0		
2.30 mm	PLC 0		
3.00 mm	PLC 0		
High Voltage Arc Tracking Rate (HVTR) (0.850 mm)	PLC 0		UL 746
Hot-wire Ignition (HWI)			UL 746
0.850 mm	PLC 3		
1.60 mm	PLC 2		
2.30 mm	PLC 2		
3.00 mm	PLC 1		
Flammability	Nominal Value	Unit	Test Method
Flame Rating			UL 94
0.850 mm	V-0		
1.60 mm	V-0		
	V-0		
2.30 mm	5VA		

3.00 mm

5VA

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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