

PRL TP-G30

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TP-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

Good Dimensional Stability

Good Stiffness

Heat Resistant

General Information			
UL YellowCard	E113219-100787263		
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Good Dimensional Stability Good Stiffness High Heat Resistance		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.52	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0 to 20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.60 to 0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	117	MPa	
Break, 3.18 mm	117	MPa	
Flexural Modulus (3.18 mm)	7580	MPa	ASTM D790
Flexural Strength (Break, 3.18 mm)	193	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	53	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	218	°C	
1.8 MPa, Unannealed, 3.18 mm	202	°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 1		UL 746
High Amp Arc Ignition (HAI)			UL 746
1.50 mm	PLC 2		
3.00 mm	PLC 2		
Hot-wire Ignition (HWI)			UL 746
1.50 mm	PLC 2		
3.00 mm	PLC 1		
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	HB		
3.00 mm	HB		
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	65.6 to 87.8	°C	

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