

PRL TP-GFMF1

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TP-GFMF1 is a Polybutylene Terephthalate (PBT) product filled with 40% glass\mineral. 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			
UL YellowCard	E113219-473096		
Filler / Reinforcement	Glass\Mineral,40% 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	1.75	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	2.0 to 8.0	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	96.5	MPa	
Break, 3.18 mm	96.5	MPa	
Flexural Modulus (3.18 mm)	10000	MPa	ASTM D790
Flexural Strength (3.18 mm)	159	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	204	°C	
1.8 MPa, Unannealed, 3.18 mm	188	°C	
RTI Elec (1.50 mm)	75.0	°C	UL 746

RTI Imp (1.50 mm)	75.0	°C	UL 746
RTI Str (1.50 mm)	75.0	°C	UL 746
Electrical	Nominal Value		Test Method
High Amp Arc Ignition (HAI) (1.50 mm)	PLC 0		UL 746
Hot-wire Ignition (HWI) (1.50 mm)	PLC 0		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (1.50 mm)	V-0		UL 94
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	243 to 254	°C	
Middle Temperature	249 to 260	°C	
Front Temperature	254 to 266	°C	
Processing (Melt) Temp	249 to 277	°C	
Mold Temperature	71.1 to 93.3	°C	

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