

# PRL TPSF-FRG30

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TPSF-FRG30 is a Polybutylene Terephthalate (PBT) product filled with 30% glass fiber. It can be processed by foam processing and is available in North America. Typical application: Foam.

Characteristics include:

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

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Foamable		
	Good Chemical Resistance		
	High Heat Resistance		
	Low Warpage		
	Self Extinguishing		
Uses	Structural Foam		
RoHS Compliance	RoHS Compliant		
UL File Number	E113219		
Forms	Pellets		
Processing Method	Foam Processing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.62	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	4.0 to 12	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.30 to 0.50	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	114	MPa	
Break, 3.18 mm	114	MPa	
Flexural Modulus (3.18 mm)	7240	MPa	ASTM D790
Flexural Strength (Break, 3.18 mm)	176	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	210	°C	
1.8 MPa, Unannealed, 3.18 mm	199	°C	
RTI Elec (6.00 to 6.60 mm)	75.0	°C	UL 746
RTI Imp (6.00 to 6.60 mm)	75.0	°C	UL 746
RTI Str (6.00 to 6.60 mm)	75.0	°C	UL 746
Electrical	Nominal Value		Test Method
Hot-wire Ignition (HWI) (6.00 to 6.60 mm)	PLC 0		UL 746
Flammability	Nominal Value		Test Method
Flame Rating (6.00 to 6.60 mm, All)	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	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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