

# PRL TPSF-G30

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TPSF-G30 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:  
RoHS Compliant  
Chemical Resistant  
Heat Resistant  
Warp Resistant

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Foamable		
	Good Chemical Resistance		
	High Heat Resistance		
	Low Warpage		
Uses	Structural Foam		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Foam Processing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.50	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)	0.20 to 0.50	%	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)	6890	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)	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	202	°C	
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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#### Recommended distributors for this material

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