

# PRL TPSF-G10

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TPSF-G10 is a Polybutylene Terephthalate (PBT) product filled with 10% 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,10% Filler by Weight		
Features	Foamable		
	Good Chemical Resistance		
	Low Warpage		
	Medium Heat Resistance		
Uses	Structural Foam		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Foam Processing		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.26	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0 to 18	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.40 to 0.60	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	72.4	MPa	
Break, 3.18 mm	72.4	MPa	
Flexural Modulus (3.18 mm)	2960	MPa	ASTM D790
Flexural Strength (Break, 3.18 mm)	103	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	138	°C	
1.8 MPa, Unannealed, 3.18 mm	121	°C	
Injection	Nominal Value	Unit	
Drying Temperature	82.2 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	249 to 260	°C
Mold Temperature	71.1 to 93.3	°C

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#### Recommended distributors for this material

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