

PRL TPSF-FRG10

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TPSF-FRG10 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:

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

General Information			
UL YellowCard	E113219-101228489		
Filler / Reinforcement	Glass Fiber,10% Filler by Weight		
Additive	Flame Retardant		
Features	Flame Retardant		
	Foamable		
	Good Chemical Resistance		
	Low Warpage		
	Medium Heat Resistance		
	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	1.27	g/cm³	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	68.9	MPa	
Break, 3.18 mm	68.9	MPa	
Flexural Modulus (3.18 mm)	2900	MPa	ASTM D790
Flexural Strength (3.18 mm)	102	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	
RTI Elec (5.41 to 6.60 mm)	75.0	°C	UL 746
RTI Imp (5.41 to 6.60 mm)	75.0	°C	UL 746
RTI Str (5.41 to 6.60 mm)	75.0	°C	UL 746
Electrical	Nominal Value	Test Method	
High Amp Arc Ignition (HAI) (5.41 to 6.60 mm)	PLC 0		UL 746
Hot-wire Ignition (HWI) (5.41 to 6.60 mm)	PLC 1		UL 746
Flammability	Nominal Value	Test Method	
	V-0		

Flame Rating (5.40 to 6.60 mm)	5VA	UL 94	
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	

The information and data on this page are provided by manufacturers and document providers. SHANGHAI SUSHENG assumes no legal liability. It is strongly recommended to verify all technical data with material suppliers before final material selection. All rights belong to the original authors. If any infringement occurs, please contact us immediately.

Recommended distributors for this material

Susheng Import & Export Trading Co.,Ltd.

Tel: +86 21 5895 8519

Phone: +86 13424755533

Email: sales@su-jiao.com

No. 215, Lianhe North Road, Fengxian District, Shanghai, China

