PRL TP-G40

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TP-G40 is a Polybutylene Terephthalate (PBT) product filled with 40% glass fiber. It can be processed by injection molding and is available in North America.
Characteristics include:
RoHS Compliant
Heat Resistant

General Information			
Filler / Reinforcement	Glass Fiber,40% Filler by Weight		
Features	High Heat Resistance		
RoHS Compliance	RoHS Compliant		
Forms	Pellets		
Processing Method	Injection Molding		
Physical	**Nominal Value**	**Unit**	**Test Method**
Specific Gravity	1.61	g/cm³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	5.0 to 10	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.50 to 0.80	%	ASTM D955
Mechanical	**Nominal Value**	**Unit**	**Test Method**
Tensile Strength			ASTM D638
Yield, 3.18 mm	128	MPa	
Break, 3.18 mm	128	MPa	
Flexural Modulus (3.18 mm)	8270	MPa	ASTM D790
Flexural Strength (Break, 3.18 mm)	200	MPa	ASTM D790
Impact	**Nominal Value**	**Unit**	**Test Method**
Notched Izod Impact (23°C, 3.18 mm)	80	J/m	ASTM D256
Thermal	**Nominal Value**	**Unit**	**Test Method**
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	221	°C	
1.8 MPa, Unannealed, 3.18 mm	210	°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	65.6 to 87.8	°C	

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

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