

PRL TP-G20

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TP-G20 is a Polybutylene Terephthalate (PBT) product filled with 20% 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,20% 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	1.43	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0 to 20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.60 to 0.90	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18 mm	110	MPa	
Break, 3.18 mm	110	MPa	
Flexural Modulus (3.18 mm)	5860	MPa	ASTM D790
Flexural Strength (Break, 3.18 mm)	165	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	207	°C	
1.8 MPa, Unannealed, 3.18 mm	196	°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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