

# PRL TP-GFMF3

Polybutylene Terephthalate

Polymer Resources Ltd.

Message:

PRL TP-GFMF3 is a polybutene terephthalate (PBT) product, which contains 30% glass and mineral. It can be processed by injection molding and is available in North America.

Features include:

ROHS certification

Heat resistance

General Information			
Filler / Reinforcement	Glass \mineral, 30% filler by weight		
Features	Heat resistance, high		
RoHS Compliance	RoHS compliance		
Forms	Particle		
Processing Method	Injection molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.54	g/cm <sup>3</sup>	ASTM D792
Melt Mass-Flow Rate (MFR) (250°C/2.16 kg)	8.0 - 20	g/10 min	ASTM D1238
Molding Shrinkage - Flow (3.18 mm)	0.40 - 0.70	%	ASTM D955
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength			ASTM D638
Yield, 3.18mm	96.5	MPa	ASTM D638
Fracture, 3.18mm	96.5	MPa	ASTM D638
Flexural Modulus (3.18 mm)	6890	MPa	ASTM D790
Flexural Strength (3.18 mm)	152	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, 3.18mm	207	°C	ASTM D648
1.8 MPa, unannealed, 3.18mm	199	°C	ASTM D648
Additional Information			
Preliminary Data			
Injection	Nominal Value	Unit	
Drying Temperature	116 - 121	°C	
Drying Time	3.0 - 4.0	hr	
Drying Time, Maximum	8.0	hr	
Rear Temperature	243 - 254	°C	
Middle Temperature	249 - 260	°C	
Front Temperature	254 - 266	°C	

Processing (Melt) Temp	246 - 274	°C
Mold Temperature	71.1 - 93.3	°C

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#### Recommended distributors for this material

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