

OmniTech™ PBT GMR40

Polybutylene Terephthalate

OMNI Plastics, LLC

Message:

40% Glass/Mineral Reinforced, PBT

General Information			
Filler / Reinforcement	Glass\Mineral,40% Filler by Weight		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.62	g/cm ³	ASTM D792
Melt Mass-Flow Rate (MFR) (300°C/1.2 kg)	18	g/10 min	ASTM D1238
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	82.7	MPa	ASTM D638
Tensile Elongation (Break)	4.0	%	ASTM D638
Flexural Modulus	8270	MPa	ASTM D790
Flexural Strength	124	MPa	ASTM D790
Impact	Nominal Value	Unit	Test Method
Notched Izod Impact (23°C, 3.18 mm)	64	J/m	ASTM D256
Thermal	Nominal Value	Unit	Test Method
Deflection Temperature Under Load			ASTM D648
0.45 MPa, Unannealed, 3.18 mm	213	°C	
1.8 MPa, Unannealed, 3.18 mm	191	°C	
Flammability	Nominal Value		Test Method
Flame Rating (3.18 mm)	HB		Internal Method
Injection	Nominal Value	Unit	
Drying Temperature	116	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	238 to 271	°C	
Middle Temperature	249 to 277	°C	
Front Temperature	249 to 277	°C	
Nozzle Temperature	249 to 277	°C	
Processing (Melt) Temp	238 to 271	°C	
Mold Temperature	26.7 to 82.2	°C	
Back Pressure	0.345 to 0.689	MPa	

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