

OmniTech™ PBT FR GF30 BK1000

Polybutylene Terephthalate

OMNI Plastics, LLC

Message:

30% Glass Reinforced, Flame Resistant PBT

General Information			
Filler / Reinforcement	Glass Fiber,30% Filler by Weight		
Features	Flame Retardant		
UL File Number	E138590		
Processing Method	Injection Molding		
Physical	Nominal Value	Unit	Test Method
Specific Gravity	1.59	g/cm ³	ASTM D792
Molding Shrinkage			ASTM D955
Flow	0.20 to 0.60	%	
Across Flow	0.40 to 0.80	%	
Mechanical	Nominal Value	Unit	Test Method
Tensile Strength (Yield, 23°C)	117	MPa	ASTM D638
Tensile Elongation (Break)	5.0	%	ASTM D638
Flexural Modulus	6890	MPa	ASTM D790
Flexural Strength	172	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	216	°C	
1.8 MPa, Unannealed, 3.18 mm	204	°C	
Flammability	Nominal Value		Test Method
Flame Rating			UL 94
1.50 mm	V-0		
	V-0		
2.49 mm	5VA		
Injection	Nominal Value	Unit	
Drying Temperature	116	°C	
Drying Time	3.0 to 4.0	hr	
Suggested Max Moisture	0.020	%	
Rear Temperature	249 to 271	°C	
Middle Temperature	249 to 277	°C	

Front Temperature	249 to 277	°C
Nozzle Temperature	249 to 277	°C
Processing (Melt) Temp	249 to 271	°C
Mold Temperature	26.7 to 82.2	°C
Back Pressure	0.345 to 0.689	MPa

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Recommended distributors for this material

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