



**OmniTech™**  
**PBT FR GF30 BK1000**

30% Glass Reinforced, Flame Resistant PBT

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.59	1.59
Filler/Reinforcement	%	D2584	30	30
Mold Shrinkage, Linear	in/in	D955	.002 to .006	
Mold Shrinkage, Transverse	in/in	D955	.004 to .008	

**IMPACT**

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1.2	64
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**MECHANICAL**

Tensile Strength At Yield, 73°F	psi (MPa)	D638	17,000	117
Tensile Elongation	%	D638	5	5
Flexural Modulus	psi (MPa)	D790	1,000,000	6,895
Flexural Strength	psi (MPa)	D790	25,000	172

**THERMAL**

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	420	216
1/8" bar, 264 psi	°F (°C)	D648	400	204

**FLAMMABILITY**

**UL File Number E138590**

Flame Resistance	.098" (2.5mm)	UL94	V-0/5VA	V-0/5VA
Flame Resistance	.059" (1.5mm)	UL94	V-0	V-0

**RECOMMENDED PROCESSING CONDITIONS**

Drying Temperature	240° F
Drying Time	3-4 hrs. max.
Maximum Moisture	0.02%
Rear Zone(s)	480 to 520° F
Middle Zone(s)	480 to 530° F
Front Zone(s)	480 to 530° F
Nozzle	480 to 530° F
Mold Temperature	80 to 180° F
Melt Temperature	480 to 520° F
Back Pressure	50 to 100 psi

Values are based on natural or black materials unless otherwise noted. Properties and values herein are based on laboratory test specimens and should not be used to establish minimum specification limits or fabricate tooling.

Omni does not guarantee the accuracy of this information or the suitability of this product in any given application or usage situation.