



OmniTech™

PBT FR GF15 BK1000

15% Glass Reinforced, Flame Resistant PBT

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.53	1.53
Filler/Reinforcement	%	D2584	15	15
IMPACT				
Izod Impact Resistance Notched 1/8" bar, 73 °F	ft.-lbs/in. (J/m)	D256	1	53
MECHANICAL				
Tensile Strength At Yield, 73 °F	psi (MPa)	D638	-	-
At Break, 73 °F	psi (MPa)	D638	13500	93
Tensile Elongation	%	D638	5	5
Flexural Modulus	psi (MPa)	D790	720,000	4,964
Flexural Strength	psi (MPa)	D790	20,000	138
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	410	210
1/8" bar, 264 psi	°F (°C)	D648	360	182
FLAMMABILITY				
UL File Number E138590				
Flame Resistance	.118" (3.0mm)	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)			460 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			460 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.