Omni PLASTICS™

Product Data & Processing Guidelines

ISO 9001:2008 Certification

OmniTech™
PBTFRGF30 BK1000

30% Glass Reinforced, Flame Resistant PBT

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	18	18
Specific Gravity		D792	1.6	1.6
Filler/Reinforcement	%	D2584	30	30
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	14,000	97
Tensile Elongation	%	D638	2	2
Flexural Modulus	psi (MPa)	D790	1,100,000	7,585
Flexural Strength	psi (MPa)	D790	23,000	159
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	250° 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 to180° 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.

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