



OmniTech™
PBT GR10
 10% Glass Reinforced PBT

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	14	14
Specific Gravity		D792	1.37	1.37
Filler/Reinforcement	%	D2584	10	10

IMPACT

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1	53
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MECHANICAL

Tensile Strength At Break, 73°F	psi (MPa)	D638	13,800	95
Tensile Elongation	%	D638	5	5
Flexural Modulus	psi (MPa)	D790	680,000	4,689
Flexural Strength	psi (MPa)	D790	19,000	131

THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	410	210
1/8" bar, 264 psi	°F (°C)	D648	375	191

FLAMMABILITY

Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
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RECOMMENDED PROCESSING GUIDELINES

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.