



OmniTech™
ABS GR10

10% Glass Reinforced, ABS

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.10	1.10
Filler/Reinforcement	%	D2584	10	10
Mold Shrinkage, Linear	in/in	D955	.001 to .003	
Mold Shrinkage, Transverse	in/in	D955	.002 to .006	

IMPACT

Izod Impact Resistance Notched 1/8" bar, 73 °F	ft.-lbs/in. (J/m)	D256	1.5	80
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MECHANICAL

Tensile Strength At Yield, 73 °F	psi (MPa)	D638	7,700	53
Tensile Elongation	%	D638	2	2
Flexural Modulus	psi (MPa)	D790	550,000	3,792
Flexural Strength	psi (MPa)	D790	13,200	91

THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	-	-
1/8" bar, 264 psi	°F (°C)	D648	200	93

FLAMMABILITY

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

Drying Temperature	190 °F
Drying Time	4 hrs. max.
Maximum Moisture	0.15%
Rear Zone(s)	400 to 480 °F
Middle Zone(s)	420 to 500 °F
Front Zone(s)	420 to 500 °F
Nozzle	420 to 500 °F
Mold Temperature	80 to 140 °F
Melt Temperature	420 to 500 °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.