



OmniLon™
PA6/6 GB40

40% Glass Bead Reinforced, Nylon 6/6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.42	1.42
Filler/Reinforcement	%	D5630	40	40
Mold Shrinkage, Isotropic	in/in		.005 to .010	

IMPACT

Izod Impact Resistance Notched 1/8" bar, 73 °F	ft.-lbs/in. (J/m)	D256	0.7	37
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MECHANICAL

Tensile Strength At Yield, 73 °F	psi (MPa)	D638	11,000	76
Tensile Elongation	%	D638	10	10
Flexural Modulus	psi (MPa)	D790	650,000	4,482
Flexural Strength	psi (MPa)	D790	19,600	135

THERMAL

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

FLAMMABILITY

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

Drying Temperature	180 °F
Drying Time	2 to 4 Hours
Maximum Moisture	0.20%
Rear Zone(s)	480 to 540 °F
Middle Zone(s)	500 to 560 °F
Front Zone(s)	500 to 560 °F
Nozzle	500 to 560 °F
Mold Temperature	80 to 180 °F
Melt Temperature	500 to 560 °F
Back Pressure	50 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.