



OmniLon™
PA6 GB30

30% Glass Bead Reinforced, Nylon 6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.35	1.35
Filler/Reinforcement	%	D5630	30	30
Mold Shrinkage, Isotropic	in/in		.008 - .012	

IMPACT

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

MECHANICAL

Tensile Strength At Yield, 73 °F	psi (MPa)	D638	11,400	79
Tensile Elongation	%	D638	7	7
Flexural Modulus	psi (MPa)	D790	650,000	4,482
Flexural Strength	psi (MPa)	D790	17,000	117

THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	390	199
1/8" bar, 264 psi	°F (°C)	D648	255	124

FLAMMABILITY

Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
--	-------	------	-----	-----

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)	480 to 540 °F
Front Zone(s)	480 to 540 °F
Nozzle	480 to 540 °F
Mold Temperature	80 to 180 °F
Melt Temperature	480 to 540 °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.