



**OmniLon™**  
**PA6 GBR30**

30% Glass Fiber & Bead Co-Reinforced, Nylon 6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.38	1.38
Filler/Reinforcement	%	D5630	30	30
Mold Shrinkage, Linear	in/in		.001 - .004	
Mold Shrinkage, Transverse	in/in		.003 - .009	

**IMPACT**

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1.2	64
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**MECHANICAL**

Tensile Strength At Yield, 73°F	psi (MPa)	D638	19,500	135
Tensile Elongation	%	D638	3	3
Flexural Modulus	psi (MPa)	D790	1,200,000	9,660
Flexural Strength	psi (MPa)	D790	28,000	207

**THERMAL**

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

**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	520 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.