



**OmniLon™**  
**PA6 U IM8 BK1000**  
 High Impact, Utility Grade, Nylon 6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.09	1.09
Filler/Reinforcement	%	D5630	-	-

**IMPACT**

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	3	159
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**MECHANICAL**

Tensile Strength At Yield, 73°F	psi (MPa)	D638	9,000	62
Tensile Elongation	%	D638	30	30
Flexural Modulus	psi (MPa)	D790	340,000	2,346
Flexural Strength	psi (MPa)	D790	12,500	86

**THERMAL**

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	-	-
1/8" bar, 264 psi	°F (°C)	D648	140	60

**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)	460 to 540° F
Middle Zone(s)	480 to 560° F
Front Zone(s)	480 to 560° F
Nozzle	500 to 560° F
Mold Temperature	80 to 180° F
Melt Temperature	480 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.