



OmniLon™
PA6/6 U BK1000
 Utility Grade, Nylon 6/6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.14	1.14
Filler/Reinforcement	%	D5630	-	-
Mold Shrinkage, Isotropic	in/in		.016 - .022	

IMPACT

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	0.9	48
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MECHANICAL

Tensile Strength At Yield, 73°F	psi (MPa)	D638	10,500	73
Tensile Elongation	%	D638	20	20
Flexural Modulus	psi (MPa)	D790	420,000	2,898
Flexural Strength	psi (MPa)	D790	16,000	110

THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	400	204
1/8" bar, 264 psi	°F (°C)	D648	150	66

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)	500 to 540° F
Middle Zone(s)	520 to 560° F
Front Zone(s)	520 to 560° F
Nozzle	520 to 560° F
Mold Temperature	80 to 180° F
Melt Temperature	520 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.