



OmniLon™
PA6 U GR43 BK1000

43% Glass Reinforced, Utility Grade, Nylon 6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.48	1.48
Filler/Reinforcement	%	D5630	43	43

IMPACT

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	2.2	117
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MECHANICAL

Tensile Strength At Yield, 73°F	psi (MPa)	D638	24,800	171
Tensile Elongation	%	D638	3	3
Flexural Modulus	psi (MPa)	D790	1,850,000	12,756
Flexural Strength	psi (MPa)	D790	38,500	265

THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	425	218
1/8" bar, 264 psi	°F (°C)	D648	415	213

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.