



OmniLon™
PA6/6 U GR13 BK1000

13% Glass Reinforced, Utility Grade, Pre-Colored Black, Nylon 6/6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.21	1.21
Filler/Reinforcement	%	D5630	13	13
IMPACT				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	0.8	43
Charpy Impact Resistance Notched, 23°C	ft-lb/in ² (kJ/m ²)	ISO 179-1eA	1.8	3.8
MECHANICAL				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	16,000	110
Tensile Elongation	%	D638	3	3
Tensile Strength At Break, 23°C	psi (MPa)	ISO 527	16,500	114
Flexural Modulus	psi (MPa)	D790	650,000	4,482
Flexural Strength	psi (MPa)	D790	23,500	162
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	495	257
1/8" bar, 264 psi	°F (°C)	D648	465	241
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)	520 to 560° F
Middle Zone(s)	520 to 560° F
Front Zone(s)	520 to 560° F
Nozzle	520 to 560° F
Mold Temperature	80 to 140° 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.