



Product Data & Processing Guidelines

ISO 9001:2008 Certification

OmniLon™

PA6/6 MS2

High Lubricity, Wear Resistant, Nylon 6/6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.15	1.15
Mold Shrinkage, Isotropic	in/in		.012 to .018	

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	13,000	90
Tensile Elongation	%	D638	10	10
Flexural Modulus	psi (MPa)	D790	450,000	3,103
Flexural Strength	psi (MPa)	D790	17,500	121

THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	495	257
1/8" bar, 264 psi	°F (°C)	D648	-	-

FLAMMABILITY

Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
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RECOMMENDED PROCESSING CONDITIONS

Drying Temperature	175° F
Drying Time	2 to 4 Hours
Maximum Moisture	0.20%
Rear Zone(s)	500 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.