



OmniLon™
PA6/6 U IM8

High Impact Resistant, Utility Grade, Nylon 6/6

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	3.8	203
Charpy Impact Resistance Notched 1/8" bar, 23°F	ft.-lbs/in ² (kJ/m ²)	ISO 1701e/A	3	6.3
Charpy Impact Resistance Notched 1/8" bar, -30°F	ft.-lbs/in ² (kJ/m ²)	ISO 1701e/A	1.2	2.5
MECHANICAL				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	8,400	58
Tensile Elongation	%	D638	50	50
Flexural Modulus	psi (MPa)	D790	275,000	1,896
Flexural Strength	psi (MPa)	D790	10,000	69
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	440	227
1/8" bar, 264 psi	°F (°C)	D648	160	71
FLAMMABILITY				
Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
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.