



**OmniLon™**  
**PA6/6 SI2**

Silicone Modified, Nylon 6/6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.13	1.13
Mold Shrinkage, Isotropic	in/in		.013 - .020	.013 - .020
<b>IMPACT</b>				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	0.7	37
<b>MECHANICAL</b>				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	11,500	79
Tensile Elongation	%	D638	20	20
Flexural Modulus	psi (MPa)	D790	450,000	3,105
Flexural Strength	psi (MPa)	D790	10,500	73
<b>THERMAL</b>				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	-	-
1/8" bar, 264 psi	°F (°C)	D648	-	-
<b>FLAMMABILITY</b>				
<b>ULFile Number E138590</b>				
Flame Resistance	.118" (3.0mm)	UL94	HB	HB
Flame Resistance	.059" (1.5mm)	UL94	HB	HB
White Color Only				
<b>RECOMMENDED PROCESSING CONDITIONS</b>				
Drying Temperature			175° F	
Drying Time			2 to 4 Hours	
Maximum Moisture			0.12%	
Rear Zone(s)			480 to 540° F	
Middle Zone(s)			500 to 560° F	
Front Zone(s)			500 to 560° F	
Nozzle			500 to 575° F	
Mold Temperature			80 to 140° F	
Melt Temperature			520 to 560° F	
Back Pressure			100 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.