



**OmniLon™**  
**PA6/6 GR33 HSH**

33% Glass Reinforced, Heat Stabilized, Hydrolysis Resistant, Nylon 6/6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.39	1.39
Filler/Reinforcement	%	D5630	33	33
Mold Shrinkage, Linear	in/in		.001 to .003	
Mold Shrinkage, Transverse	in/in		.004 to .008	
Moisture Absorption 73°F, 24 hr.	%	D570	0.8	
<b>IMPACT</b>				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	2	106
<b>MECHANICAL</b>				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	26,000	179
Tensile Elongation	%	D638	3	3
Flexural Modulus	psi (MPa)	D790	1,500,000	10,350
Flexural Strength	psi (MPa)	D790	42,000	290
<b>THERMAL</b>				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	500	260
1/8" bar, 264 psi	°F (°C)	D648	480	249
<b>FLAMMABILITY</b>				
<b>UL File Number E138590</b>				
Flame Resistance	.118" (3.0mm)	UL94	HB	HB
Flame Resistance	.059" (1.5mm)	UL94	HB	HB
All Color Recognition				
<b>RECOMMENDED PROCESSING CONDITIONS</b>				
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.