



# OmniLon™

## PA6 GR33 HSX BSD10

Static Dissipative, 33% Glass Reinforced, Long-Term Thermally Stabilized, Nylon 6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.45	1.45
Filler/Reinforcement	%	D5630	33	33
<b>IMPACT</b>				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1.5	80
<b>MECHANICAL</b>				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	26,500	183
Tensile Elongation	%	D638	2	2
Flexural Modulus	psi (MPa)	D790	1,600,000	11,032
Flexural Strength	psi (MPa)	D790	40,000	276
<b>THERMAL</b>				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	420	216
1/8" bar, 264 psi	°F (°C)	D648	400	204
<b>FLAMMABILITY</b>				
Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
<b>ELECTRICAL</b>				
Surface Resistivity	Ω/square	D257	10 <sup>6</sup> - 10 <sup>8</sup>	
<b>RECOMMENDED PROCESSING CONDITIONS</b>				
Drying Temperature			180° F	
Drying Time			2 to 4 Hours	
Maximum Moisture			0.15%	
Rear Zone(s)			480 to 520° F	
Middle Zone(s)			480 to 540° F	
Front Zone(s)			480 to 540° F	
Nozzle			480 to 540° F	
Mold Temperature			80 to 160° F	
Melt Temperature			480 to 540° 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.