



**OmniLon™**  
**PA6 GR33 HSX BCC12**

Electrically Conductive, 33% Glass Reinforced, Heat 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	1.3	69
<b>MECHANICAL</b>				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	26,000	186
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>2</sup> - 10 <sup>5</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.