



**OmniLon™**

**PA6 GR13**

13% Glass Reinforced, Nylon 6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.21	1.21
Filler/Reinforcement	%	D5630	13	13
Mold Shrinkage, Linear	in/in		.001 to .005	
Mold Shrinkage, Transverse	in/in		.003 to .010	

**IMPACT**

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1.4	74
--	-------------------	------	-----	----

**MECHANICAL**

Tensile Strength At Yield, 73°F	psi (MPa)	D638	18,000	124
Tensile Elongation	%	D638	4	4
Flexural Modulus	psi (MPa)	D790	850,000	5,865
Flexural Strength	psi (MPa)	D790	33,000	228

**THERMAL**

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	420	216
1/8" bar, 264 psi	°F (°C)	D648	390	199

**FLAMMABILITY**

**UL File Number E138590**

Flame Resistance	.118" (3.0mm)	UL94	HB	HB
	.059" (1.5mm)	UL94	HB	HB
All Color Recognition				

**RECOMMENDED PROCESSING CONDITIONS**

Drying Temperature	180° F
Drying Time	2 to 4 Hours
Maximum Moisture	0.20%
Rear Zone(s)	480 to 540° F
Middle Zone(s)	500 to 560° F
Front Zone(s)	500 to 560° F
Nozzle	500 to 560° F
Mold Temperature	80 to 180° F
Melt Temperature	500 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.