



OmniLon™

PA6/6 GR23

23% Glass Reinforced, Nylon 6/6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.28	1.28
Filler/Reinforcement	%	D5630	23	23
IMPACT				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1.4	75
MECHANICAL				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	22,500	155
Tensile Elongation	%	D638	3	3
Flexural Modulus	psi (MPa)	D790	1,100,000	7,584
Flexural Strength	psi (MPa)	D790	34,000	234
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	500	260
1/8" bar, 264 psi	°F (°C)	D648	470	243
FLAMMABILITY				
UL File Number E138590				
Flame Resistance	.118" (3.0mm)	UL94	HB	HB
Flame Resistance	.031" (.8mm)	UL94	HB	HB
All Color Approval				
RECOMMENDED PROCESSING CONDITIONS				
Drying Temperature			180° F	
Drying Time			2 to 4 Hours	
Maximum Moisture			0.12%	
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.