



OmniLon™

PA6/6 GR50

50% Glass Reinforced, Nylon 6/6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.58	1.58
Filler/Reinforcement	%	D5630	50	50
Mold Shrinkage, Linear	in/in		.001 to .004	
Mold Shrinkage, Transverse	in/in		.004 to .009	
IMPACT				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	3	160
MECHANICAL				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	35,000	241
Tensile Elongation	%	D638	2	2
Flexural Modulus	psi (MPa)	D790	2,400,000	16,548
Flexural Strength	psi (MPa)	D790	55,300	381
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	-	-
1/8" bar, 264 psi	°F (°C)	D648	480	249
ELECTRICAL				
Dielectric Strength	kV/in (kV/mm)	D149	838	33
FLAMMABILITY				
Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
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	520 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.