



OmniLon™
PA6/6 MF40

40% Mineral Reinforced, Nylon 6/6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.48	1.48
Filler/Reinforcement	%	D5630	40	40
IMPACT				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	0.9	48
MECHANICAL				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	13,000	90
Tensile Elongation	%	D638	2	2
Flexural Modulus	psi (MPa)	D790	1,000,000	6,895
Flexural Strength	psi (MPa)	D790	23,500	162
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	450	232
1/8" bar, 264 psi	°F (°C)	D648	220	104
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			0.12%	
Rear Zone(s)			520 to 560° F	
Middle Zone(s)			520 to 560° F	
Front Zone(s)			520 to 560° F	
Nozzle			520 to 580° 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.