



# OmniLon™

## PA6/6 GMR40 HS

40% Glass & Mineral Co-Reinforced, Heat Stabilized, Nylon 6/6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.46	1.46
Filler/Reinforcement	%	D5630	40	40

### IMPACT

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	0.8	43
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### MECHANICAL

Tensile Strength At Yield, 73°F	psi (MPa)	D638	18,500	128
Tensile Elongation	%	D638	3	3
Flexural Modulus	psi (MPa)	D790	1,400,000	9,660
Flexural Strength	psi (MPa)	D790	28,000	193

### THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	490	254
1/8" bar, 264 psi	°F (°C)	D648	-	-

### FLAMMABILITY

Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
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### RECOMMENDED PROCESSING CONDITIONS

Drying Temperature	180° F
Drying Time	2 to 4 Hours
Maximum Moisture	0.20%
Rear Zone(s)	520 to 560° F
Middle Zone(s)	520 to 560° F
Front Zone(s)	520 to 580° F
Nozzle	520 to 560° F
Mold Temperature	80 to 180° 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.