



OmniLon™
PA6/6 GR20 FR0

20% Glass Reinforced, Flame Resistant, Nylon 6/6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.55	1.55
Filler/Reinforcement	%	D5630	20	20
Mold Shrinkage, Linear	in/in		.001 to .005	
Mold Shrinkage, Transverse	in/in		.005 to .010	

IMPACT

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1.4	75
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MECHANICAL

Tensile Strength At Yield, 73°F	psi (MPa)	D638	18,000	124
Tensile Elongation	%	D638	3	3
Flexural Modulus	psi (MPa)	D790	1,100,000	7,584
Flexural Strength	psi (MPa)	D790	29,500	203

THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	-	-
1/8" bar, 264 psi	°F (°C)	D648	440	267

FLAMMABILITY

UL File Number E138590

Flame Resistance	.118" (3.0mm)	UL94	V-0	V-0
Flame Resistance	.059" (1.5mm)	UL94	V-0	V-0
All Color Recognition				

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.