



OmniLon™
PA6/6 GR35 NHFR0 HS

35% Glass Reinforced, Chlorine & Bromine Free, Flame Resistant, Heat Stabilized, Nylon 6/6

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.44	1.44
Filler/Reinforcement	%	D5630	35	35
Mold Shrinkage, Linear	in/in		.001 to .004	
Mold Shrinkage, Transverse	in/in		.004 to .008	

IMPACT

Izod Impact Resistance Notched 1/8" bar, 73 °F	ft.-lbs/in. (J/m)	D256	1.8	96
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MECHANICAL

Tensile Strength At Yield, 73 °F	psi (MPa)	D638	25,000	172
Tensile Elongation	%	D638	2	2
Flexural Modulus	psi (MPa)	D790	1,500,000	10,342
Flexural Strength	psi (MPa)	D790	42,500	293

THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	495	257
1/8" bar, 264 psi	°F (°C)	D648	470	243

ELECTRICAL

Dielectric Strength	kV/mm	60243-1		17.8
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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

Black Color Only

RECOMMENDED PROCESSING CONDITIONS

Drying Temperature	180 °F
Drying Time	2 to 4 Hours
Maximum Moisture	0.15%
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.