



**OmniTech™**  
**ABS GR30**

30% Glass Reinforced, General Purpose ABS

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	4	4
Specific Gravity		D792	1.26	1.26
Filler/Reinforcement	%	D2584	30	30
Mold Shrinkage, Linear	in/in	D955	.001 - .004	
Mold Shrinkage, Transverse	in/in	D955	.003 - .006	

**IMPACT**

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

**MECHANICAL**

Tensile Strength At Yield, 73°F	psi (MPa)	D638	12,500	86
Tensile Elongation	%	D638	2	2
Flexural Modulus	psi (MPa)	D790	1,200,000	8,274
Flexural Strength	psi (MPa)	D790	20,000	138

**THERMAL**

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	-	-
1/8" bar, 264 psi	°F (°C)	D648	219	104

**FLAMMABILITY**

Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
--	-------	------	-----	-----

**RECOMMENDED PROCESSING CONDITIONS**

Drying Temperature	190° F
Drying Time	4 hrs. max.
Maximum Moisture	0.04%
Rear Zone(s)	400 to 480° F
Middle Zone(s)	420 to 500° F
Front Zone(s)	420 to 500° F
Nozzle	420 to 500° F
Mold Temperature	80 to 140° F
Melt Temperature	420 to 500° F
Back Pressure	50 to 100 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.