



**OmniTech™**  
**HDPE GRC10**

10% Glass Reinforced, Chemically Coupled, High Density Polyethylene

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	8	8
Specific Gravity		D792	1.01	1.01
Filler/Reinforcement	%	D2584	10	10
<b>IMPACT</b>				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1.7	91
<b>MECHANICAL</b>				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	5,400	37
Tensile Elongation	%	D638	10	10
Flexural Modulus	psi (MPa)	D790	235,000	1,620
Flexural Strength	psi (MPa)	D790	5,700	39
<b>THERMAL</b>				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	290	143
1/8" bar, 264 psi	°F (°C)	D648	200	93
<b>FLAMMABILITY</b>				
Flammability Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
<b>RECOMMENDED PROCESSING CONDITIONS</b>				
Drying Temperature			N/A	
Drying Time			N/A	
Maximum Moisture			N/A	
Rear Zone(s)			400 to 480° F	
Middle Zone(s)			400 to 480° F	
Front Zone(s)			400 to 480° F	
Nozzle			400 to 480° F	
Mold Temperature			80 to 180° F	
Melt Temperature			400 to 480° 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.