



OmniTech™ HDPE GRC30

30% Glass Reinforced, Chemically Coupled, High Density Polyethylene

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	6	6
Specific Gravity		D792	1.17	1.17
Filler/Reinforcement	%	D2584	30	30
IMPACT				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1.7	91
MECHANICAL				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	7,500	52
Tensile Elongation	%	D638	4	4
Flexural Modulus	psi (MPa)	D790	560,000	3,861
Flexural Strength	psi (MPa)	D790	9,500	66
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	265	129
1/8" bar, 264 psi	°F (°C)	D648	250	121
FLAMMABILITY				
Flame Resistance *Omni Internal Testing	.125"	UL94	HB*	HB*
RECOMMENDED PROCESSING CONDITIONS				
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.