



OmniCarb™
PC GR30

30% Glass Reinforced, Polycarbonate

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	12	12
Specific Gravity		D792	1.43	1.43
Filler/Reinforcement	%	D5630	30	30
IMPACT				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	2.8	150
MECHANICAL				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	18,000	124
Tensile Elongation	%	D638	4	4
Flexural Modulus	psi (MPa)	D790	1,000,000	6,895
Flexural Strength	psi (MPa)	D790	25,000	172
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	300	149
1/8" bar, 264 psi	°F (°C)	D648	285	141
FLAMMABILITY				
Flame Resistance *Omni Internal Testing	.125" (3mm)	UL94	HB*	HB*
RECOMMENDED PROCESSING CONDITIONS				
Drying Temperature			250° F	
Drying Time			3 to 4 Hours	
Maximum Moisture			0.02%	
Rear Zone(s)			480 to 540° F	
Middle Zone(s)			500 to 560° F	
Front Zone(s)			500 to 560° F	
Nozzle			520 to 560° F	
Mold Temperature			120 to 220° F	
Melt Temperature			500 to 560° F	
Back Pressure			25 to 50 psi	

Omni does not guarantee the accuracy of this information or the suitability of this product in any given application or usage situation. Values are based on natural materials unless otherwise noted. The addition of pigments and colorants can significantly affect final Properties. The Data and values herein are based on laboratory test specimens and should not be used to establish specification limits or fabricate tooling.