



OmniCarb™
PC GR10

10% Glass Reinforced Polycarbonate

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	14	14
Specific Gravity		D792	1.25	1.25
Filler/Reinforcement	%	D2584	10	10
IMPACT				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	3.2	171
MECHANICAL				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	9,000	62
Tensile Elongation	%	D638	5	5
Flexural Modulus	psi (MPa)	D790	430,000	2,965
Flexural Strength	psi (MPa)	D790	12,000	83
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	280	138
1/8" bar, 264 psi	°F (°C)	D648	275	135
FLAMMABILITY				
Flame Resistance *Omni Internal Testing	.125"	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 560° F	
Middle Zone(s)			520 to 580° F	
Front Zone(s)			520 to 580° F	
Nozzle			520 to 580° F	
Mold Temperature			150 to 250° F	
Melt Temperature			520 to 580° 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.