



**OmniCarb™**  
**PCSFFR**

5% Glass Reinforced, Structural Foam Grade, Polycarbonate

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	10	10
Specific Gravity		D792	1.23	1.23
Filler/Reinforcement	%	D5630	5	5
<b>IMPACT</b>				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	5	267
<b>MECHANICAL</b>				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	8,050	55
Tensile Elongation	%	D638	5	5
Flexural Modulus	psi (MPa)	D790	320,000	2,206
Flexural Strength	psi (MPa)	D790	12,000	83
<b>THERMAL</b>				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	260	121
1/8" bar, 264 psi	°F (°C)	D648	250	127
<b>FLAMMABILITY</b>				
<b>UL File Number E138590</b>				
Flame Resistance All Color Recognition	.118" (3.0mm)	UL94	V-0	V-0
<b>RECOMMENDED PROCESSING CONDITIONS</b>				

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.