



**OmniCarb™**  
**PC08FRGF40**

40% Glass Reinforced, Flame Resistant Polycarbonate

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Specific Gravity		D792	1.52	1.52
Filler/Reinforcement	%	D5630	40	40
Mold Shrinkage, Linear	in/in		.001 to .004	
Mold Shrinkage, Transverse	in/in		.003 to .006	

**IMPACT**

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	2.5	133
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**MECHANICAL**

Tensile Strength At Yield, 73°F	psi (MPa)	D638	21,000	145
Tensile Elongation	%	D638	3	3
Flexural Modulus	psi (MPa)	D790	1,600,000	11,032
Flexural Strength	psi (MPa)	D790	27,500	186

**THERMAL**

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	-	-
1/8" bar, 264 psi	°F (°C)	D648	295	146

**FLAMMABILITY**

<b>UL File Number E138590</b>				
Flame Resistance	.118" (3mm)	UL94	V-0	V-0
All Color Recognition				

**RECOMMENDED PROCESSING CONDITIONS**

Drying Temperature	250° F
Drying Time	2 to 4 Hours
Maximum Moisture	0.02%
Rear Zone(s)	480 to 540° F
Middle Zone(s)	500 to 560° F
Front Zone(s)	520 to 560° F
Nozzle	520 to 560° F
Mold Temperature	80 to 180° 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.