



**OmniCarb™**  
**PC08FRGF10**

10% Glass Reinforced, Flame Resistant Polycarbonate

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	10	10
Specific Gravity		D792	1.27	1.27
Filler/Reinforcement	%	D5630	10	10
Mold Shrinkage, Transverse	in/in		.002 to .005	
Mold Shrinkage, Linear	in/in		.001 to .004	

**IMPACT**

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	1.8	96
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**MECHANICAL**

Tensile Strength At Yield, 73°F	psi (MPa)	D638	8,800	61
Tensile Elongation	%	D638	12	12
Flexural Modulus	psi (MPa)	D790	450,000	3,105
Flexural Strength	psi (MPa)	D790	14,000	97

**THERMAL**

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	290	143
1/8" bar, 264 psi	°F (°C)	D648	275	134

**FLAMMABILITY**

**UL File Number E138590**

Flame Resistance	.118" (3mm)	UL94	V-0/5VA*	V-0 /5VA*
Flame Resistance	.059" (1.5mm)	UL94	V-0	V-0

All Color Recognition

\* 5VA In Black only

**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	120 to 220° 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.