



**OmniCarb™**  
**PC08FR510**

Flame Resistant, UV Stabilized Polycarbonate

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	10	10
Specific Gravity		D792	1.2	1.2
<b>IMPACT</b>				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	12	641
<b>MECHANICAL</b>				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	8,800	61
Flexural Modulus	psi (MPa)	D790	330,000	2,275
Flexural Strength	psi (MPa)	D790	13,000	90
<b>THERMAL</b>				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	280	138
1/8" bar, 264 psi	°F (°C)	D648	260	127
<b>FLAMMABILITY</b>				
<b>UL File E138590</b>				
Flame Resistance	.059" (1.5 mm)	UL94	V-0	V-0
Flame Resistance	.118" (3.0 mm)	UL94	V-0/5VA	V-0/5VA
Relative Thermal Index		UL746B	266°F/257°F/257°F	130°C/125°C/125°C
Weatherability		UL 746C	f1	f1
All Color Recognition				
<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			120 to 220° F	
Melt Temperature			520 to 580° F	
Back Pressure			25 to 50 psi	

Values are based on natural or black materials unless otherwise noted. Properties and values herein are based on laboratory test specimens and should not be used to establish minimum specification limits or fabricate tooling.

Omni does not guarantee the accuracy of this information or the suitability of this product in any given application or usage situation.