



OmniCarb™

PC08FR701

Flame Resistant, UV Stabilized, Polycarbonate

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	14	14
Specific Gravity		D792	1.2	1.2
Mold Shrinkage, Isotropic	in/in		.003 to .007	

IMPACT

Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	12	641
--	-------------------	------	----	-----

MECHANICAL

Tensile Strength At Yield, 73°F	psi (MPa)	D638	8,800	61
Tensile Elongation	%	D638	115	115
Flexural Modulus	psi (MPa)	D790	330,000	2,277
Flexural Strength	psi (MPa)	D790	13,000	90

THERMAL

Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	280	138
1/8" bar, 264 psi	°F (°C)	D648	260	127

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
Weatherability		UL 746C	f1	f1
Relative Thermal Index		UL746B	266°F/257°F/257°F	130°C/125°C/125°C
All Color Recognition				

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.