



# OmniCarb™ PC220

Easy Flow, Flame Resistant, UV Stabilized, Polycarbonate

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	20	20
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
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## MECHANICAL

Tensile Strength At Yield, 73°F	psi (MPa)	D638	8,800	61
Tensile Elongation	%	D638	100	100
Flexural Modulus	psi (MPa)	D790	330,000	2,275
Flexural Strength	psi (MPa)	D790	13,000	90

## THERMAL

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

## FLAMMABILITY

<b>UL File E138590</b>				
Flame Resistance	.118" (3.0)	UL94	V-2	V-2
	.059" (1.5)	UL94	V-2	V-2
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

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.