



**OmniCarb™**  
**PC/PBT 1420 CTI**

Cold Temperature Impact Resistant, PC/PBT

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	20	20
Specific Gravity		D792	1.19	1.19
Shrinkage	in/in		.005 - .009	

**IMPACT**

Izod Impact Resistance				
Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	14	742
Notched 1/8" bar, -22°F	ft.-lbs/in. (J/m)	D256	10	530

**MECHANICAL**

Tensile Strength				
At Yield, 73°F	psi (MPa)	D638	7,500	52
Tensile Elongation	%	D638	120	120
Flexural Modulus	psi (MPa)	D790	310,000	2,137
Flexural Strength	psi (MPa)	D790	10,800	74

**THERMAL**

Deflection Temperature				
1/8" bar, 66 psi	°F (°C)	D648	-	-
1/8" bar, 264 psi	°F (°C)	D648	210	98

**FLAMMABILITY**

Flame Resistance	.125"	UL94	HB*	HB*
*Omni Internal Testing				

**RECOMMENDED PROCESSING CONDITIONS**

Drying Temperature	220 to 240 °F
Drying Time	2-4 hrs. max.
Maximum Moisture	0.02%
Rear Zone(s)	480 to 520° F
Middle Zone(s)	480 to 540° F
Front Zone(s)	480 to 540° F
Nozzle	480 to 540° F
Mold Temperature	120 to 180° F
Melt Temperature	480 to 520° F
Back Pressure	50 to 100 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.