



OmniCarb™

PC 106 HSV

High Viscosity, Weatherable, Polycarbonate

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	6	6
Specific Gravity		D792	1.2	1.2
IMPACT				
Izod Impact Resistance Notched 1/8" bar, 73°F	ft.-lbs/in. (J/m)	D256	14	743
MECHANICAL				
Tensile Strength At Yield, 73°F	psi (MPa)	D638	8,800	61
Tensile Elongation	%	D638	7	7
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	.059" (1.5 mm)	UL94	HB*	HB*
Flame Resistance	.118" (3.0 mm)	UL94	HB*	HB*
Relative Thermal Index		UL746B	176°F/176°F/176°F*	80°C/80°C/80°C*
Weatherability *UL Submission Pending		UL746C	f1*	f1*
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.