



OmniCarb™
PC/ABS 20 FR

Easy Flow, Flame Resistant PC/ABS

PHYSICAL	Units	ASTM/ISO Procedure	English	Metric
Melt Flow	g/10 min.	D1238	20	20
Specific Gravity		D792	1.18	1.18
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	8,500	59
Tensile Elongation	%	D638	50	50
Flexural Modulus	psi (MPa)	D790	385,000	2,655
Flexural Strength	psi (MPa)	D790	14,000	97
THERMAL				
Deflection Temperature 1/8" bar, 66 psi	°F (°C)	D648	220	104
Vicat Softening Temperature	°F (°C)	D1525	249	121
FLAMMABILITY				
UL File Number E138590				
Flame Resistance	.118" (3.0mm)	UL94	V-0/5VB	V-0/5VB
Flame Resistance	.059" (1.5mm)	UL94	V-0	V-0
All Color Recognition				
RECOMMENDED PROCESSING CONDITIONS				
Drying Temperature			200° F	
Drying Time			3-4 hrs. max.	
Maximum Moisture			0.02%	
Rear Zone(s)			440 to 520° F	
Middle Zone(s)			480 to 540° F	
Front Zone(s)			480 to 540° F	
Nozzle			480 to 540° F	
Mold Temperature			80 to 180° F	
Melt Temperature			480 to 540° 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.