



## CELTEC GRAPHIC & DISPLAY MATERIALS

### CELTEC® EXPANDED PVC

TYPICAL PHYSICAL PROPERTIES	Units of Measure	Value	ASTM Method
<b>Physical</b>			
Density	g/cm <sup>3</sup>	0.55 – 0.70	D 792
Water Absorption	%	0.15 – 0.30	D 570
Water Absorption	%	0.9	D 2842
<b>Mechanical</b>			
Tensile Strength	psi	2256 - 3000	D 638
Tensile Modulus	psi	144.000 – 232.000	D 638
Flexural Strength	psi	3329	D 790
Flexural Modulus	psi	144.219	D 790
Nail Hold	Lbf/in of penetration	35	D 1761
Screw Hold	Lbf/in of penetration	680	D 1761
Staple Hold	Lbf/in of penetration	180	D 1761
Gardner Impact	in/lbs	103	D 4228
Izod Impact Strength	ft-lb/in	0.53	D 256
Charpy Impact (Un-notched @23°)	ft-lb/in	4.5 – 8.1	D 256
<b>Thermal</b>			
Heat Deflection Temp (264 psi)	°F	150	D 648
Coefficient of Linear Expansion	in/in/°F	3.2 – 4.0 x 10 <sup>-5</sup>	D 696
Thermal Conductivity	W/mK	0.084	D 177
<b>Flammability Ratings</b>			
Burning Rate	in/min	No burn when flame removed	-
Flame Spread Index	—	20	E 84
Vertical Burn Test	—	5-V	UL 94
Foam Fire Test	—	Passed / Classified	UL 1975
Oil Canning (@ 140°)	°F	Passed	D 648
<b>Electrical</b>			
Dielectric Strength	kV/cm	112	D 149



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The "Typical" properties of our plastic sheet cannot be automatically used when engineering finished components; and the fabricator or end user is responsible for insuring the suitability of our products for their specific application or end use!

2 UL® is a registered trademark of United Laboratories.

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