



## GRAPHIC & DISPLAY MATERIALS

### CELTEC® MATERIALS

TYPICAL PHYSICAL PROPERTIES*	UNITS	ASTM	EXPANDED PVC	ULTRA WHITE	WOODGRAIN	THICK GAUGE
<b>Physical</b>						
Density	g/cm <sup>3</sup>	D 792	0.58	1.42	0.55	0.55-0.56
Water Absorption	%	D 570	0.15 - 0.30	0.06	<0.50	<0.50
Hunter Whiteness Index	-	-	85	89		
Surface Energy	Dyne	-	38	28		
Hardness	Shore D	D 224	55	89	55	55
<b>Mechanical</b>						
Tensile Strength	psi	D 638	2,256-3,000	7,400	3,582	3,582
Flexural Strength	psi	D 790	3,755	10,000	5,179	5,179
Flexural Modulus	psi	D 790	170,000	400,000	215,000	215,000
Screw Hold	psi	D 1761	17.0 - 300			
Screw Hold	ft-lb/in	D 1037			240+	240+
Izod Impact	ft-lb/in	D 256	0.69	18	0.27	0.27
<b>Thermal</b>						
Heat Deflection Temp (264 psi)	°F	D 648	175	176	146	146
Coefficient of Linear Expansion	in/in/°F	D 696	2.3 X 10 <sup>-5</sup>	3.2 X 10 <sup>-5</sup>	3.24 X 10 <sup>-5</sup>	3.24 X 10 <sup>-5</sup>
Vicat Softening Point	°F	D 1525	168	181		
Thermal Resistance R (0.5" Thick)	R	C 518	0.948	-		
<b>Flammability Ratings</b>						
Flame Spread Index	-	E 84	Class A	Class A	<25	<25
Vertical Burn Test	-	UL 94	V-0	V-0		
Fire Foam Test	-	UL 1975	-	-		
Oil Canning (@140)	°f	D648	Passed		Passed	Passed
Burning Rate	In/min	D635		-	Failed to Ignite	Failed to Ignite
<b>Electrical</b>						
Dielectric Strength	kV/cm	D 149	72	645		
<b>Compliances</b>						
	-	-	FDA, RoHS	RoHS, REACH, ASTM D 1784		

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