



GRAPHIC & DISPLAY MATERIALS

CELTEC® MATERIALS

TYPICAL PHYSICAL PROPERTIES*	UNITS	ASTM	EXPANDED PVC	ULTRA WHITE	WOODGRAIN	THICK GAUGE
Physical						
Density	g/cm ³	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
Mechanical						
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
Thermal						
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 ⁻⁵	3.2 X 10 ⁻⁵	3.24 X 10 ⁻⁵	3.24 X 10 ⁻⁵
Vicat Softening Point	°F	D 1525	168	181		
Thermal Resistance R (0.5" Thick)	R	C 518	0.948	-		
Flammability Ratings						
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
Electrical						
Dielectric Strength	kV/cm	D 149	72	645		
Compliances						
	-	-	FDA, RoHS	RoHS, REACH, ASTM D 1784		

Physical properties of plastic sheeting are represented as 'Typical'. Information contained herein is considered accurate to the best of our knowledge. It is offered for your consideration and investigation, and is not to be construed as representation or warranty expressed or implied. Our warranties are limited to those expressly stated in formal contracts or in conditions of sale on our invoices and order acceptances. Conditions and methods of use may vary and are beyond the control of Vycom Corporation; therefore, Vycom Corporation disclaims any liability incurred as a result of the use of this product in accordance with the data contained in our physical property charts. No information herein shall be construed as an offer of indemnity for infringement or as a recommendation to use the products in such a manner as to infringe any patent, domestic or foreign.

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!

These suggestions and data are based on information we believe to be reliable. They are offered in good faith, but without guarantee, as conditions and methods of use are beyond our control. We recommend that the prospective user determines the suitability of our materials and suggestions before adopting them on a commercial scale.

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