

## Celtec® Typical Properties

Property	Units	Value <sup>(1)</sup> : 1mm - 6mm	Value: 10mm - 25mm	ASTM Method
<b>Physical</b>				
Density	g/cm <sup>3</sup>	0.70	0.55	D 792
Water Absorption	%	0.3	0.15	D 570
Water Absorption	%	0.9	—	D 2842
<b>Mechanical</b>				
Tensile Strength	psi	3000	2256	D 638
Tensile Modulus	psi	232,000	144,000	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	8.1	4.5	D 256
<b>Thermal</b>				
Heat Deflection Temp (264 psi)	°F	151	150	D 648
Coefficient of Linear Expansion	in/in/°F	4.0 × 10 <sup>-5</sup>	3.2 × 10 <sup>-5</sup>	D 696
Thermal Conductivity	W/mK	0.084	—	C 177
<b>Flammability Ratings</b>				
Burning Rate	in/min	No burn when flame removed	No burn when flame removed	—
Flame Spread Index	—	20	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

<sup>1</sup> 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 a 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 Corp., therefore, Vycom Corp. 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!

<sup>2</sup> UL® is a registered trademark of United Laboratories.

These products are available from

**AP**  
**Aetna Plastics**  
 800.634.3074 - www.aetnoplastics.com