

Celtec® Typical Properties

| Property | Units | Value ⁽¹⁾ : 1mm - 6mm | Value: 10mm - 25mm | ASTM Method |
|---------------------------------|-----------------------|----------------------------------|----------------------------|-------------|
| Physical | | | | |
| Density | g/cm ³ | 0.70 | 0.55 | D 792 |
| Water Absorption | % | 0.3 | 0.15 | D 570 |
| Water Absorption | % | 0.9 | — | D 2842 |
| Mechanical | | | | |
| 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 |
| Thermal | | | | |
| Heat Deflection Temp (264 psi) | °F | 151 | 150 | D 648 |
| Coefficient of Linear Expansion | in/in/°F | 4.0 × 10 ⁻⁵ | 3.2 × 10 ⁻⁵ | D 696 |
| Thermal Conductivity | W/mK | 0.084 | — | C 177 |
| Flammability Ratings | | | | |
| 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 |
| Electrical | | | | |
| 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!

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