### Physical Properties

**PALIGHT® Trimboard**

Material: Rigid Foam PVC  
Updated: 1/6/12 (MDW)

Notes: The table depicting the typical properties of PALIGHT® Trimboard sheets appears below.

Conditions, units and values in U.S. Customary units are presented in the table within parentheses. All the results depicted in this table were obtained by following the indicated ASTM method except where another method is indicated by the appearance of this symbol (b).

<table>
<thead>
<tr>
<th>Property</th>
<th>Conditions (U.S. Customary)</th>
<th>ASTM Method</th>
<th>Units - SI (U.S. Customary)</th>
<th>Value (U.S. Customary)</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Physical</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Density</td>
<td>D-1505</td>
<td>g/cm³ (lb/ft³)</td>
<td>0.55-0.60 (35)</td>
<td></td>
</tr>
<tr>
<td>Water Absorption: 24 hr. @ 23°C</td>
<td>D-570</td>
<td>%</td>
<td>0.5</td>
<td></td>
</tr>
<tr>
<td><strong>Mechanical</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Tensile strength at yield</td>
<td>10 mm/min (0.4 in./min)</td>
<td>D-638</td>
<td>MPa (psi)</td>
<td>15 (2,200)</td>
</tr>
<tr>
<td>Tensile strength at break</td>
<td>10 mm/min (0.4 in./min)</td>
<td>D-638</td>
<td>MPa (psi)</td>
<td>14.5 (2,100)</td>
</tr>
<tr>
<td>Elongation at yield</td>
<td>10 mm/min (0.4 in./min)</td>
<td>D-638</td>
<td>%</td>
<td>5</td>
</tr>
<tr>
<td>Elongation at break</td>
<td>10 mm/min (0.4 in./min)</td>
<td>D-638</td>
<td>%</td>
<td>40</td>
</tr>
<tr>
<td>Flexural Modulus</td>
<td>1.3 mm/min (0.05 in./min)</td>
<td>D-790</td>
<td>MPa (psi)</td>
<td>896 (130,000)</td>
</tr>
<tr>
<td>Flexural Strength at Yield</td>
<td>1.3 mm/min (0.05 in./min)</td>
<td>D-790</td>
<td>MPa (psi)</td>
<td>28 (4,000)</td>
</tr>
<tr>
<td>Hardness (Shore D)</td>
<td>Durometer</td>
<td>Shore D</td>
<td>52-58</td>
<td></td>
</tr>
<tr>
<td><strong>Thermal</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Long Term Service Temperature</td>
<td></td>
<td>°C (°F)</td>
<td>-15 to 55 (14 to 131)</td>
<td></td>
</tr>
<tr>
<td>Heat Deflection Temperature</td>
<td>Load: 1.82 Mpa (264 psi)</td>
<td>D-648</td>
<td>°C (°F)</td>
<td>60 (140)</td>
</tr>
<tr>
<td>Coefficient of Linear Thermal Expansion</td>
<td>D-696</td>
<td>10⁻⁵/°C (10⁻⁵/°F)</td>
<td>6.7 (3.7)</td>
<td></td>
</tr>
<tr>
<td>Thermal Conductivity</td>
<td>C-177</td>
<td>W/mK (Btu-in./hr-ft²-°F)</td>
<td>.87 (0.5)</td>
<td></td>
</tr>
<tr>
<td><strong>Electrical</strong></td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Surface Resistance</td>
<td>Ketley</td>
<td>D-257</td>
<td>Ohm</td>
<td>5 x 10¹⁵</td>
</tr>
<tr>
<td>Volume Resistance</td>
<td>Ketley</td>
<td>D-257</td>
<td>Ohm-cm</td>
<td>2 x 10¹⁶</td>
</tr>
</tbody>
</table>