**Overview**

SUNLITE’s polycarbonate reinforced structure yields a strong yet lightweight sheet with high impact strength and considerable thermal insulation. These benefits, combined with its high light transmission, make SUNLITE ideal for varied architectural roofing and glazing, as well as high-end agricultural greenhouse covering.

**Installation**

When specifying SUNLITE, thermal expansion must be accommodated on both end and side interfaces, nominally 3mm per meter. For more information please refer to the SUNLITE technical guide.

**Tolerances**

<table>
<thead>
<tr>
<th>Tolerance</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Width dimension</td>
<td>0 to +4 mm</td>
</tr>
<tr>
<td>Length dimension</td>
<td>&lt; 3 m, 0 to +5 mm, 3-5 m, 0 to +7 mm, &gt; 5 m, 0 to +10 mm</td>
</tr>
<tr>
<td>Weight</td>
<td>±5% of nominal weight</td>
</tr>
<tr>
<td>Light transmission</td>
<td>±4% of specified LT</td>
</tr>
</tbody>
</table>

**Typical Physical Properties**

<table>
<thead>
<tr>
<th>Property</th>
<th>Units</th>
<th>8 mm</th>
<th>10 mm</th>
<th>16 mm</th>
<th>20 mm</th>
<th>25 mm</th>
</tr>
</thead>
<tbody>
<tr>
<td>Overall thickness</td>
<td>mm</td>
<td>8</td>
<td>10</td>
<td>16</td>
<td>20</td>
<td>25</td>
</tr>
<tr>
<td>Area weight*</td>
<td>kg/m²</td>
<td>1.8</td>
<td>1.9</td>
<td>2.65</td>
<td>2.9</td>
<td>3.4</td>
</tr>
<tr>
<td>U-value (Ug)</td>
<td>Watt/m²•°K</td>
<td>2.7</td>
<td>2.3</td>
<td>1.75</td>
<td>1.55</td>
<td>1.39</td>
</tr>
<tr>
<td>U-value (Ug) - US Units</td>
<td>BTU/(hr•ft²•°F)</td>
<td>0.47</td>
<td>0.40</td>
<td>0.30</td>
<td>0.27</td>
<td>0.24</td>
</tr>
<tr>
<td>Sheet standard widths (Closed/Closed)*</td>
<td>mm</td>
<td>700, 980, 1050, 1200, 1250, 2100**</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard lengths*</td>
<td>mm</td>
<td>6000, 7000</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Rib Distance</td>
<td>mm</td>
<td>14</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Light transmission</td>
<td></td>
<td>Clear%</td>
<td>64</td>
<td>64</td>
<td>64</td>
<td>62</td>
</tr>
<tr>
<td></td>
<td></td>
<td>White Opal%</td>
<td>45</td>
<td>45</td>
<td>38</td>
<td>38</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Bronze%</td>
<td>29</td>
<td>29</td>
<td>29</td>
<td>29</td>
</tr>
<tr>
<td>Min. cold bending radius</td>
<td>m</td>
<td>1.4</td>
<td>1.5</td>
<td>2.4</td>
<td>3.5</td>
<td>4.4</td>
</tr>
<tr>
<td>Service temperature</td>
<td></td>
<td>Short term °C</td>
<td>-50 to 120</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>Long term °C</td>
<td>-50 to 100</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Practical thermal expansion/contraction range</td>
<td>mm/m</td>
<td>3</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Flammability ratings (EN 13501-1:2013)</td>
<td></td>
<td>B-s1, d0</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Sound Reduction Value***</td>
<td>dB</td>
<td>18</td>
<td>19</td>
<td>20</td>
<td>21</td>
<td>23</td>
</tr>
</tbody>
</table>

*Non-standard options are available upon request.

**Notes:**

- Max width of 7 Wall 8mm is 2080mm. Max width of 7 Wall 10mm is 2090mm.
- **Calculated values according to DIN 52210 - 75.**

---

©1998 Palram Industries Ltd.
SUNLITE is a registered trademark of Palram Industries Ltd.