Overview
SUNLITE SLT is engineered for use on enclosures where plants must thrive, and where people must feel comfortable. Examples of such environments include retail garden centers and commercial greenhouse holding facilities.

SUNLITE SLT is designed to reflect heat from the sun (IR radiation) with less shading so that transmission of visible light remains high. The result is high quality light with less stress-inducing heat from the sun.

SUNLITE SLT polycarbonate sheets offer all the benefits of polycarbonate glazing, such as high impact resistance, excellent durability, and 99.9% UV blocking.

Main Benefits
- Reduces heat from the sun while transmitting valuable PAR light for plant growth
- Reduces shade requirement by selectively reflecting the sun’s heat-giving solar radiation
- Irrigation and growth regulator requirements are reduced, as well as related labor costs
- Better light quality and added heat reduction than competing “cool light” type products
- SolarSmart resins are stable and won’t fade or become ineffective over time
- Built-in condensate control
- High light diffusion and reduced heat provides a more comfortable environment for retail customers and greenhouse laborers

Typical Applications
- Commercial greenhouses
- Retail garden centers
- Commercial greenhouse holding facilities

palram.com/us
Illustration of Benefits

The solar spectrum bands can be measured by their wavelength. Every band of radiation has its specific effects on living tissues.

**Light Transmission Characteristics of SUNLITE™ SLT**

- **Ultraviolet radiation is harmful to humans and can cause skin cancer.**
- **Visible light makes up the colors seen in a rainbow and includes Photosynthetic Active Radiation (PAR), which is utilized by plants for growth.**
- **Near Infrared Radiation carries pure heat energy from the sun.**

All SUNLITE products block 99.9% of the sun’s harmful UV rays.

**Solar Energy Transmission of SUNLITE SLT vs. competing heat reducing product**

- SUNLITE SLT’s higher PAR transmission is good for plants.
- Competing product’s infrared transmission is higher, resulting in more heat gain.

**Table of Typical Properties**

See the SUNLITE Technical and Installation Guide for additional specifications and details.

<table>
<thead>
<tr>
<th>Property</th>
<th>Value</th>
</tr>
</thead>
<tbody>
<tr>
<td>Solar Transmission (ASTM E424-71)</td>
<td>59%</td>
</tr>
<tr>
<td>Light Transmission (ASTM D1003)</td>
<td>60%</td>
</tr>
<tr>
<td>U-Value (Winter Night) Brt/(h•ft²•F)</td>
<td>0.58</td>
</tr>
<tr>
<td>Solar Reflectance</td>
<td>0.29</td>
</tr>
<tr>
<td>Shading Coefficient</td>
<td>0.65</td>
</tr>
<tr>
<td>Solar Heat Gain Coefficient</td>
<td>0.56</td>
</tr>
<tr>
<td>Service Temperature Range</td>
<td>-40°F to +250°F</td>
</tr>
</tbody>
</table>

**Other Properties**

<table>
<thead>
<tr>
<th>Thickness Inches (mm)</th>
<th>Sheet Thickness</th>
<th>Weight</th>
<th>Minimum Radius for Cold Bending</th>
</tr>
</thead>
<tbody>
<tr>
<td>8mm</td>
<td>500</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5/16&quot;</td>
<td>400</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Standard Widths</td>
<td>Optional Widths*</td>
<td>Standard Length†</td>
<td></td>
</tr>
<tr>
<td>1219mm, 1829mm</td>
<td>1200mm, 1810mm</td>
<td>731.5cm</td>
<td></td>
</tr>
<tr>
<td>48&quot;, 72&quot;</td>
<td>47.25&quot;, 71.25&quot;</td>
<td>24'</td>
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</tbody>
</table>

* Minimum purchase requirements may apply.
† Lengths up to 48' are available with minimum purchase requirements.

**Regulatory Code Compliance Certification**

<table>
<thead>
<tr>
<th>Organization</th>
<th>Standard</th>
<th>Classification*</th>
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</thead>
<tbody>
<tr>
<td>ASTM International</td>
<td>ASTM D-635</td>
<td>CC-1</td>
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<tr>
<td>ASTM International</td>
<td>ASTM E-84-00</td>
<td>Class A</td>
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<tr>
<td>BSI (UK)</td>
<td>BS 476/7</td>
<td>Class 1</td>
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<tr>
<td>DIN (Germany)</td>
<td>DIN 4102</td>
<td>B-1</td>
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</tbody>
</table>

*Depends on thickness

**Installation**

For detailed installation information, consult our SUNLITE Manual (Form# 1203).