SUNTUF® Plus
Condensation Control Corrugated Polycarbonate Sheet

Overview
SUNTUF® Plus provides unique benefits which enable it to provide plants with the best nurturing conditions. The sheet includes a special built-in mechanism to reduce condensation & drip. This feature allows SUNTUF Plus to transmit optimal levels of PAR light in any weather condition and assist in protecting the crop in the greenhouse.

SUNTUF Plus maintains its superior mechanical properties for extended periods. It sets the standard for efficient greenhouse roofing with over 25 million square meters installed in numerous greenhouses around the globe.

Main benefits
- Up to 90% light transmission
- Reduces condensation & drip
- Retains its performance over time
- Virtually unbreakable
- Blocks out UV and far IR radiation
- Available with 20% and 100% light diffusion
- Allows energy savings of up to 50%
- Installation: Flexible installation, easy to work with. Can be cold formed into arches
- Optional UV protection on both sides
- Wide service temperature range
- Available in 1260 mm and 1870 mm widths
- In cold climates - Reduces snow buildup in comparison with twin-wall sheets
- 10 year limited warranty

Typical Applications
- Commercial Greenhouses
- Gardening Centers
- Swimming pools & spa facilities

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In as much as Palram Industries has no control over the use to which others may put the material, it does not guarantee that the same results as those described herein will be obtained. Each user of the material should make his own tests to determine the material’s suitability for his own particular use. Statements concerning possible or suggested uses of the materials described herein are not to be construed as constituting a license under any Palram Industries patent covering such use or as recommendations for use of such materials in the infringement of any patent. Palram Industries or its distributors cannot be held responsible for any losses incurred through incorrect installation of the material. In accordance with our company policy of continual product development you are advised to check with your local Palram Industries supplier to ensure that you have obtained the most up to date information.

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**SUNTUF® Plus**

**Special features**

**Built-In Condensation Control**
SUNTUF® Plus with its unique condensation control increases light transmission by 30% at peak condensation periods.

**Extremely high impact resistance and load bearing**
SUNTUF® Plus withstands hail and flying debris better than any other greenhouse covering. Its flexibility and tensile strength make it suitable for the harshest climates.

**Resistance to UV Radiation**
SUNTUF® Plus withstands the detrimental effects of UV radiation for many years.

**Efficient Insulation**
Even at its standard 0.8mm thickness, the thermal insulation of SUNTUF® Plus is greater than that of 4mm glass or any greenhouse film product.

**Reduces energy loss**
SUNTUF® Plus reduces far IR radiation escape, trapping it inside the greenhouse reducing heat energy loss.

**Overlap accessories**
SUNTUF® Plus is equipped with suitable overlap accessories to hermetically seal against dust accumulation, insects or water.

**Hemispheric light transmittance**
At N45°-N55° latitude, during the 5 critical months between November and March, the sun shines most of the day at a 15°-25° angle with the horizon. SUNTUF® Plus refracts light at low angles of incidence, reduces reflection, and facilitates more light penetration into the greenhouse than any other material.

**Built-In Condensation Control**

SUNTUF® Plus maintains its high optical properties over time. A protective layer prevents UV related degradation of the material and makes SUNTUF® Plus an ideal greenhouse cover.

**SUNTUF Plus UV resistance**

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**Weathering resistance of clear SUNTUF Plus 0.8 sheet**

<table>
<thead>
<tr>
<th>QUV Machine hours</th>
<th>0</th>
<th>500</th>
<th>1000</th>
<th>1500</th>
<th>2000</th>
</tr>
</thead>
<tbody>
<tr>
<td>LT%</td>
<td>100.0%</td>
<td>89.6%</td>
<td>89.2%</td>
<td>88.9%</td>
<td>88.9%</td>
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</tbody>
</table>

The test was carried out according to ASTM G-154, using 313nm lamps producing 0.75 W/m²/nm at 47°C for 20 hours followed by 4 hours of darkness under condensation.

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**Corrugated Sheet**
- Low Sun Angle
- High Light Transmission

**Flat Sheet**
- Low Sun Angle
- Low Light Transmission

*Available in other profiles*