

# Product Data Sheet

## Mechanical Properties

<b>Tensile strength</b>	<b>80 Mpa</b>	(ISO 527-1/2-93)
<b>Flexural strength</b>	<b>120 Mpa</b>	(ISO 178-93)
<b>Impact strength</b> (Izod notched)	<b>45 Kj/m<sup>2</sup></b>	(ISO 180-93)
<b>Tensile modulus</b>	<b>8000 Mpa</b>	(ISO 527-1/2-93)
<b>Flexural modulus</b>	<b>7000 Mpa</b>	(ISO 178-93)
<b>Hardness</b> (Barcol 934-1)	<b>30-35</b>	(ASTMD-2583-87)
<b>Tensile elongation</b>	<b>1.8%</b>	(ISO 527-1/2-93)

## Thermal Properties

<b>Co-efficient of linear expansion</b>	<b>26 X 10<sup>-6</sup> /°C</b>
<b>Thermal co-efficient (k)</b>	<b>0.2 W/mK</b>
<b>Operating temperature</b>	<b>Upto 80°C</b>

## Physical Properties

<b>Light translucency</b>	<b>85-90 %</b> (for 1 mm thick single skin)
<b>Light translucency</b>	<b>70-75 %</b> (for normal double skin sheet)
<b>Light diffusion</b>	<b>Moderately diffusing</b>
<b>Water absorption (7 days)</b>	<b>31 mg.</b> (BS 2782, Part 4: Method 430 A-83)
<b>Dimensional tolerance</b>	<b>Length: ± 5 mm</b> <b>Width: ± 10 mm</b>

### PRECAUTIONS

- Our normal skylight sheets (less than 4 mm thick) are not suitable for being walked or crawled over. (For foot traffic, sheets have to be specifically manufactured).
- Sheets are to be stored in a covered and level surface with clean flat battens at both ends and intermediately placed at a maximum of 1 m pitch.