

# Data Sheet - PALSUN® UV2

Flat Solid Polycarbonate Sheet



## Product Definition

PALSUN® - Co-extruded UV protection on both sides

## Thickness Range

1 to 15 mm

## Flammability

| Standard      | Classification |
|---------------|----------------|
| EN 13501      | B, s1, d0      |
| NSP 92501, 4  | M2             |
| UL Classified | File e221255   |

*\*All the above depends on thickness.*

*For additional information please contact PALRAM.*

## Typical Physical Properties

| Property                                | Standard   | Conditions | Unit              | Value                  |
|---|------------|------------|-------------------|------------------------|
| Density                                 | ASTM D792  |            | g/cm <sup>3</sup> | 1.2                    |
| Heat Deflection Temperature             | ASTM D648  | 1.82 MPa   | °C                | 130                    |
| Service Temperature Range               |            |            | °C                | -40 to 120             |
| Coefficient of Linear Thermal Expansion | ASTM D696  |            | cm/cm °C          | 6.5 X 10 <sup>-5</sup> |
| Thermal Conductivity                    | ASTM C177  |            | W/mK              | 0.21                   |
| Tensile Strength at Yield               | ASTM D638  | 10 mm/min  | MPa               | 65                     |
| Tensile Strength at Break               | ASTM D638  | 10 mm/min  | MPa               | 60                     |
| Elongation at Yield                     | ASTM D638  | 10 mm/min  | %                 | 6                      |
| Elongation at Break                     | ASTM D638  | 10 mm/min  | %                 | >90                    |
| Tensile Modulus of Elasticity           | ASTM D638  | 1 mm/min   | MPa               | 2300                   |
| Flexural Strength                       | ASTM D790  | 1.3 mm/min | MPa               | 100                    |
| Flexural Modulus                        | ASTM D790  | 1.3 mm/min | MPa               | 2600                   |
| Impact Falling Weight (E-50)            | ISO 6603/1 | 3mm sheet  | J                 | 158                    |
| Rockwell Hardness                       | ASTM D785  |            | R Scale           | 125R                   |
| Light Transmission                      | ASTM D1003 | 3mm sheet  | %                 | 89                     |
| Haze                                    | ASTM D1003 | 3mm sheet  | %                 | <0.5                   |
| Yellowness Index                        | ASTM D1925 | 3mm sheet  |                   | <1                     |