

**DSM 3.6.4**  
**Polycarbonate Sheet**  
**Anti- Static – Transparent Clear**

**General:**

Polycarbonate (PC) sheet is a heat resistant amorphous engineering thermoplastic with outstanding transparency, impact resistance & ductility, including inherent fire resistance and a good resistance to UV light.

**Benefits:**

An alternative to glass offering 250 times the impact strength at half the weight. These unique properties have resulted in applications such as bulletproof windows, unbreakable lenses, compact discs, etc.

These products have very high aesthetic qualities as the sheet is available in a broad range of colours and textures. This material can be cold formed & polished and post assembled by visible light curing UV adhesives, ultrasonic welding and/or mechanical fastening.

**Limitations: (unmodified)**

- Poor scratch resistance.
- Relatively expensive.
- Deteriorates when exposed to many organic solvents.
- Subject to stress cracking.
- Prone to absorbing odours.
- Avoid vacuum forming, deep drawing & folding. (Damage to AS coating).

**ASM (DEK) Applications:**

- Safety Covers
- Windows

| STANDARD THICKNESS: Sheet Size 2000 x 1000 |   |   |   |   |   |   |    |
|--------------------------------------------|---|---|---|---|---|---|----|
| MM                                         | 1 | 3 | 4 | 5 | 6 | 8 | 10 |

**These values are representative. For critical applications, refer to data-sheet.**

| MECHANICAL PROPERTIES                         |                   |                 |                 |                           |        |
|-----------------------------------------------|-------------------|-----------------|-----------------|---------------------------|--------|
| MATERIAL DETAILS                              | TENSILE STRENGTH: | YOUNGS MODULUS: | POISSONS RATIO: | DENSITY:                  | UL No: |
| ESLON DC ESD: PC 407 AS:<br>Transparent Clear | 66 MPa            | 2.7 GPa         | 0.38            | 1190<br>Kg/m <sup>3</sup> | ----   |

**Alternatives:**

Alternative polymers are allowed only with the express written permission of ASMPT. Please email details of your request to [engineering\\_enquiries@asmpt.com](mailto:engineering_enquiries@asmpt.com)

| Issue | 01   | 02    | 03 | 04 | 05 | 06 | 07 | 08 | 09 |
|-------|------|-------|----|----|----|----|----|----|----|
| DCR   | 7140 | 44832 |    |    |    |    |    |    |    |