

DSM 3.4.5

Polycarbonate Sheet

Solar Bronze

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 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.

ASM (DEK) Applications:

- Safety Covers
- Windows

STANDARD THICKNESS: Sheet Size 2440 x 1220									
MM	2	3	4	5	6	8	9.5	12	15

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

MECHANICAL PROPERTIES					
MATERIAL DETAILS	TENSILE STRENGTH:	YOUNGS MODULUS:	POISSONS RATIO:	DENSITY:	UL No.
Polycarbonate Solar Bronze: PC 121	70 MPa	2.6 GPa	0.38	1200 Kg/m³	----

Alternatives:

Alternative polymers are allowed only with the express written permission of ASMPT. Please email details of your request to engineering_enquiries@asmpt.com

Issue	01	02	03	04	05	06	07	08	09
DCR	41890	44832							