

DSM 3.9.10
Polycarbonate Sheet
Abrasion Resistant -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 post assembled by visible light curing UV adhesives, ultrasonic welding and/or mechanical fastening.

Limitations: (unmodified)

- Relatively expensive.
- Deteriorates when exposed to many organic solvents.
- Subject to stress cracking.
- Prone to absorbing odours.
- **Avoid vacuum forming, deep drawing & folding.**
(A risk of damage to epoxy coating)

ASM (DEK) Applications:

- Machine Cover Windows

STANDARD THICKNESS: Sheet Size 2450 x 1230								
MM	2	3	4	5	6	8	10	12

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

MECHANICAL PROPERTIES					
MATERIAL DETAILS	TENSILE STRENGTH:	YOUNGS MODULUS:	POISSONS RATIO:	DENSITY:	UL No:
Makrolon AR: Clear: Bayer	66 MPa	2.7 GPa	0.38	1190 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	44443	44832							