

Panlite[®] MRsheet

Hard Coated Sheets for heat bending processing

Thermal Bending Compatible Hard Coated Sheets

Grades:

PC-710A

Features:

Heat bendability

Excellent heat bendability enables adaption to highly designed shapes.

Surface hardness

High surface hardness (pencil hardness HB) prevents scratches during handling and forming.

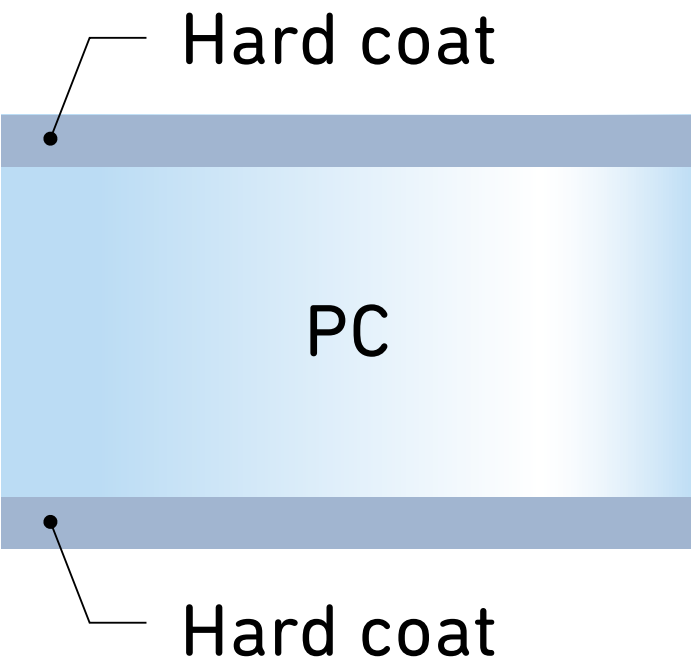
Weather resistance

High weather resistance
(Obtained FMVSS standard AS:6/7 M-number:131A DOT280)

Available thickness:

2.0mm ~ 5.0mm

Layer configuration and features:

Grade	PC-710A
Configuration	 <p>The diagram shows a cross-section of the PC-710A sheet. It consists of a central light blue layer labeled 'PC'. On both the top and bottom surfaces of this PC layer, there are thin, darker blue layers labeled 'Hard coat' with leader lines pointing to them.</p>
Pencil hardness (750g load)	HB
Features	Double-sided hard coating Abrasion resistance

Basic Physical Properties

Evaluation item		Test conditions	Unit	PC-710A
Optical properties	Total light transmittance	JIS K7361-1	%	89
	Haze	JIS K7136	%	0.2
Coating performance	Adhesion	JIS K5600-5-6	x/100	100
	Thermal bendability*1	37%(R60)		○
		4.4%(R50)		○
		5.5%(R40)		○
7.0%(R30)		△		
Hardness	Steel hardness*2		—	2~3
	Pencil hardness	JIS K5600	—	HB
	Taber hardness	JIS K7204	%	2
Durability	Resistance to moist heat	60°C-95%RH 168hr	—	○
	Weatherability	Xenon 60W/m ² BPT70°C 306MJ(1,417hr)		△Tt 0.1% No abnormal appearance
		S-Xe 180W/m ² BPT63°C,18/120min rain 583MJ(900hr)		△Tt -1.3% △YI 2.4 (900hr)

*1. After heat treatment at 170°C for 20 minutes, the sheet is wrapped around a special jig and examined for cracks.

Figures in parentheses in the test conditions indicate the bending radius (mm) for a sheet thickness of 4.0 mm.

*2. The degree of scratches evaluated when rubbing the surface of the coating film with #0000 steel wool on a 5-point scale. PC:1 / Acrylic:2 / Melamine:3 / Silicon:4 / Glass:5

*The values in the above table are measured, not guaranteed values.