

TEIJIN

Human Chemistry, Human Solutions

Panlite[®] MRsheet

Multi-Layer and Hard Coat Grades

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Grades:

PC-HA51, PC-JA53

Features:

Surface hardness

The base material is a co-extruded sheet of PC resin (for impact resistance) and PMMA resin (for surface hardness). It has extremely high surface hardness while maintaining impact resistance compared to conventional hard coated PC resin sheets.

Transparency

High transparency suitable for display covers.

Available thickness:

0.5 ~ 2.0mm

*Please contact us for sizes.

Layer configuration and features:

Grade	PC-HA51	PC-JA53
Configuration		
Pencil hardness (750g load)	4H/HB	2H/HB
Features	High hardness 4H Multi-layer double-sided hard coating	High hardness Multi-layer single-sided hard coating

Physical Properties

	Item	Test conditions	Unit	PC-HA51	PC-JA53
				1.0mm	1.0mm
General	Resin composition	–	–	Acrylic/PC	Acrylic/PC
	Hard coat	–	–	Double-sided HC	PC-sided HC
	Thickness	JIS K6735 compliant	mm	1.0	1.0
	Relative density	JIS K7112 compliant	g/cm ³	1.20	1.20
Optical properties	Total light transmittance	JIS K6735 compliant	%	91	91
	Haze	JIS K6735 compliant	%	0.2	0.2
Impact resistance	Punching workability	120×180mm punching	–	○	○
	Falling ball impact	45.5g 100cm	–	○ (No crack)	○ (No crack)
Hardness	Pencil hardness	JIS K5600 compliant (750gf)	PMMA side	4H	2H
			PC side	2B	HB

*The values listed are typical values, not certified values.