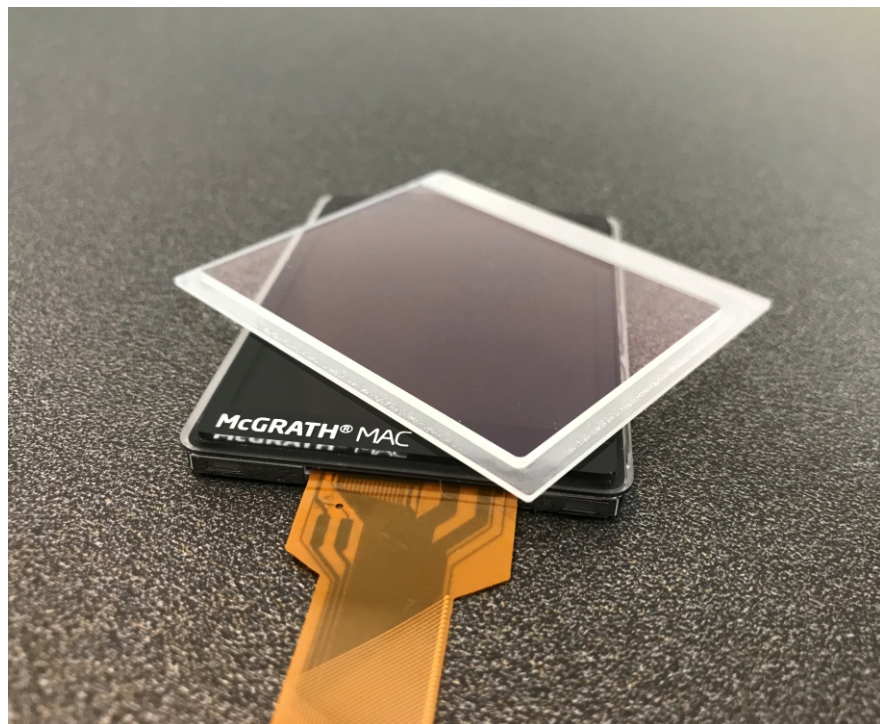


OPTICAL GRADE HARD COATED POLYCARBONATE SHEET

Available exclusively from



- Hard coated both sides (single sided price on application)
- Improved optical transmission over standard Polycarbonate
- Superior surface hardness and durability
- Excellent print adhesion achieved
- Range of thicknesses available from stock



A **SONI** product



OPTICAL GRADE HARD COATED POLYCARBONATE SHEET

TECHNICAL DATA

MODEL: LEP-100C

STANDARD PERFORMANCE TABLE



Properties	Test Item	Unit	Results	Test Method
Optical Properties	Transmittance	%	More 90	JIS-K7105
	Haze	%	Less 0.5	JIS-K7105
	Refractive Index	-	1.49	JIS-K7105
Physical Properties	Pencil Hardness	-	HB	JIS K-5600
	Scratch Resistance	-	No Scratch	Steel wool #0000 175g/50 times
	Ball Drop	-	No Crack	32g Steel Ball 10mm, 3 times
General Properties	Adhesion	-	100/100	1mm Cross Cut, 3M Tape, 3 times
	Heat & Water Resistance	-	No Change	85°C, 85% 72H
	Heat Temperature & Humidity	-	100/100	60°C 90% 72H
	Heat Cycle	-	No Change	-40°C 1hour ↔ 85°C 1hour 30cycles
Chemical Properties	0.5% Acid	-	No Change	R.T 24H
	0.5% Alkali	-	No Change	
	0.5% Salt	-	No Change	
	Methyl Alcohol	-	No Change	
	Ethyl Alcohol	-	No Change	
	IPA	-	No Change	

※ Value provided cannot be guaranteed in your application due to circumstances beyond our control.

OPTICAL GRADE HARD COATED POLYCARBONATE SHEET

TECHNICAL DATA *continued...*

Adhesion of Ink

Item	Ink	Curing Agent	Cross Cut Test		Remark
			After 70°C/40min	After 2 hours	
Colour Chip	Seiko Black	10%	100/100	100/100	Silk Screen Printing
Colour Chip	JUJO AP Black	10%	100/100	100/100	
Colour Chip	Seiko C/Grey	10%	100/100	100/100	
Colour Chip	Seiko Mirror	No2 : No3	100/100	100/100	
Colour Chip	Seiko Mirror	D curing agent 3%	100/100	100/100	
Colour Chip	JUJO Mirror	JA970 3%	100/100	100/100	
Colour Chip	Seiko Transparency	10%	100/100	100/100	
Colour Chip	JUJO Transparency	10%	100/100	100/100	

Metalising Test (Ni10%)

No	Item	Method	Result	Remark
1	Inspection	Eye checking	OK	
2	Adhesion	Cross cut	100/100	
3	Adhesion of print	Cross cut	100/100	
4	Etching	FeCl6HO	OK	

UI94 Flammable Ratings

Polycarbonate (PC)with Acrylic coating., furnished as sheets.											
Material Dsg	Colour	Min. Thk	Flame Class	W	A	R T I			V	4	C
						Elec	Mech				
CF(#+)ECO H	NC	mm		I	I		Imp	Str	R	5	I
		1.5	V-1	-	-	50	50	50	-	-	-
		2.0	V-1	-	-	50	50	50			
		3.0	V-0	-	-	50	50	50			
CF(+)ECO(@)H	NC	1.5	V-0	-	-	50	50	50	-	-	-
		2.0	V-0	-	-	50	50	50			
		3.0	V-0	-	-	50	50	50			

Storage, handling, caution

- Avoid direct sunlight during transport, handling and storage.
- Recommendable storage condition is less than 30°C, RH 40~60% indoor.