

Hard matte sheet

# HM

HM series is a hard matte sheet coated for an extra hard surface and then given an anti-glare surface treatment on one side. Different types of matte texture are available. HM series is adopted in instrument covers, filter, display covers for office appliances, LCD covers, printed plates etc.



Display cover



Display cover



Display panel

## Basic physical properties

Category	Test Item	Test Method	Unit	PC	HM01	HM02	HM04	HM06
Optical properties	Pattern	Watching	—	—	Special extra minute	Extra minute	Minute	Semi-coarse
	Light transmission	JIS K7361-1	%	89~91	89~92	89~92	87~92	87~92
	60° Gloss	JIS K5600-4-7	%	—	140~160	100~130	75~110	25~40
	Haze	JIS K7136	%	≤ 1	≤ 2	4~11	2~8	25~45
Surface hardness	Pencil hardness	JIS K5600-5-4	—	< 2B	B~HB	B~HB	B~HB	B~HB
	Scratch resistance <sup>(1)</sup>	In-house method	—	Rank 10	Rank 2~5	Rank 2~5	Rank 2~5	Rank 2~5
Chemical resistance	37.5% sodium hydroxide	1 minute contact with solvent spot	—	○	○	○	○	○
	10% hydrochloric acid			○	○	○	○	○
	Ethanol			○	○	○	○	○
	Toluene			×	○	○	○	○
	Acetone			×	○	○	○	○
	Gasoline			○	○	○	○	○

The above data are an example of actual measurement, not a guarantee for performance.

(1) Steel wool #0000 100gf/cm<sup>2</sup> reciprocated 15 times Rank 1: Inorganic glass, Rank 5: CR39, Rank 9: PMMA, Rank 10: PC

○: No change in appearance

## [Characteristics of HM series]

### High scratch resistance

Hard coat on the surface can prevent scratches from wiping and retain high transparency.

### Excellent workability

As the hard coat surface is highly adhesive, die cutting is easily conducted.

### Printability

Illustrations or corporate names can be printed on the back side of the sheet. Mask printing can be applied to the processed matte surface.

### Attractive appearance

Unnecessary reflection does not occur due to special treatment to prevent surface reflection.

## Grades

Product	Size (mm)	Thickness (mm)			
		0.5	0.8	1.0	1.5
HM01 (Special extra minute)	915 × 1,830			○	
HM02 (Extra minute)	915 × 1,830	○	○	○	○
HM04 (Minute)	915 × 1,830	○	○	○	○
HM06 (Semi-coarse)	915 × 1,830	○	○	○	○
Standard size packing unit (sheet)		20	10	10	5

○ Stock

Please contact us about products not in the table.