Panasonic INDUSTRY



Thermal barrier film

MUAH6

IRC102 (Under development)

Reducing double images film

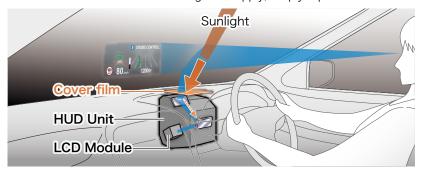
GSP Series (Under development)

Functional films for HUD cover

Reduces temperature rising of the display due to direct sunlight entering the HUD unit. Reduces visibility deterioration caused by double images.

■Thermal barrier film

Protect HUD units from direct sunlight. To apply, simply replace with the current cover.





Sunlight shielding performance

	Sunlight IN	
	Materia	
-	Sunlight OUT	

Material	Sunlight IN	Sunlight OUT	Sunlight shielding performance
MUAH6 (Thermal barrier films)		48	52
Absorption type polarizer	100	61	39
Cold mirror		51	49

The above data are typical values and not guaranteed values.

Transmittance Spectrum Lransmittance (%)		Under Develo	'	MUAH	6
	300	500	700	900	1100
Ultraviolet lig		Visible li		Infrared I	
			Waveleng	gth (nm)	

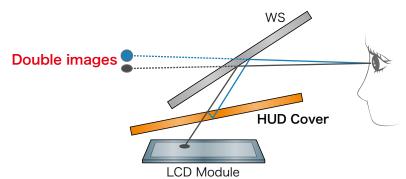
General properties

ltem (I I in	Thermal barrier films		
	Unit	MUAH6	IRC102 (Under development)	
Layer structure	-	Thermal barrier HC layer Substrate PMMA/PC 375 \(\mu\) m	Thermal barrier HC layer Substrate PMMA/PC 375 \(\mu\) m	
Total light transmittance	%	79.0	77.2	
NIR light transmittance (at 1000 nm)	%	22.5	9.9	
Haze	%	2.0	2.2	
Pencil hardness (750g load)	-	3-4H	3-4H	
Flammability (FMVSS No.302)	_	Pass	Pass	

The above data are typical values and not guaranteed values. Specifications are subject to change without notice.

■Reducing double images film

Reduces double images caused by HUD dust covers.



Double images







General properties

Item	Unit	Reducing double images film GSP Series (Under development)
Layer structure	_	Reducing double images layer Substrate
Total light transmittance	%	93.0
Haze	%	0.2
Flammability (FMVSS No.302)	_	Pass

The above data are typical values and not guaranteed values.

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Under development

Thermal barrier & Reducing double images film

Combined functionality of both thermal barrier and reducing double images

- Prevents temperature rise of the display unit due to direct sunlight.
- Reduces double images in projected images.