

## ANTI-REFLECTIVE COATED FILM (AR FILM)

### BHT-M5W200AP20

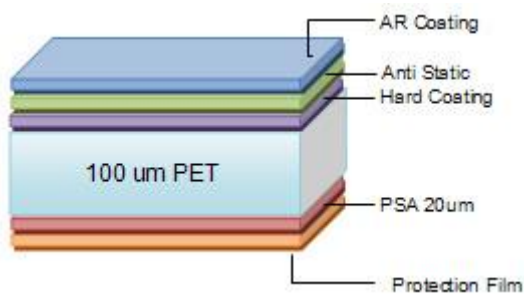
## Anti-Reflective Coated Film (AR Film)

### Description

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Upgraded AR Film enhances higher transparency on clear display. Such as LCD, PDP, touch panels, etc. Excellent properties by anti static, abrasion resistance and anti chemical material are also the great performance pointing to the valuable demand.

#### Product Structure



#### Application

Net book, POS System, and other touchable screen

Sunlight readable displays in any large, medium, and small sizes.

#### Properties

	Test item	Test method	result
OPTICAL	Minimum Reflectance	UV-VIS-NIR Spectrophotometer Absolute Reflectance(5 deg. incidence)	0.59% (at 588nm)
	Luminous Reflectance	UV-VIS-NIR Spectrophotometer Absolute Reflectance(5 deg. incidence)	0.74 %
MECHANICAL	Reflective color x	UV-VIS-NIR Spectrophotometer	0.233
	Y	Absolute Reflectance(5 deg. incidence)	0.191
	Total Luminous Transmittance	Apply to float glass (1mm). Haze meter	94.4 %
	Haze	Apply to float glass (1mm). Haze meter	0.1%

Surface Resistivity	Surface Resistivity meter(HR-type probe)	7×10 <sup>10</sup> Ω/sq.
Cross-cut Test	Scotch Tape Peeling on AR Coated Layer	Good
Pencil Hardness	500g, JIS-K5400	2~3H
Abrasion Resistance by Steel wool	Steel wool (#0000);200g/cm <sup>2</sup> load Scratch 0~5: A ~20: B >20: C	A
PSA Peel Test	180°peel method (JIS Z 0237)	8.0 N/25mm No Residual Adhesive Agent

### Contact angle

Test sample	Contact angle
Water (pure)	103°
Oleic acid	59°

### Environment Reliability

Test sample	Result	Test Method
Heat	Unchanged	103°C, 500hrs
Humidity	Unchanged	60°C, 90%RH,500hrs
Cycling test	Unchanged	-30°C ~ 60°C, 50 times

### Chemicals –resistance

Test sample	Result	Test condition
NaOH1%aq.solution.	Unchanged	Deposit a drop of test sample on film surface. After 30 minutes, wipe the drop and observe the surface.
NH4OH 3%, aq. solution.	Unchanged	"
HCL 3%, aq. solution.	Unchanged	"
Kitchen cleaner 5 % aq. Solution.	Unchanged	"
Glass cleaner	Unchanged	"
Coke	Unchanged	"
Acetone	Unchanged	"
Alcohol	Unchanged	"

### Dimension & Wavelength of the reflection after AR coated

By Roll Type

1000mm Width \* 200M Length / Roll

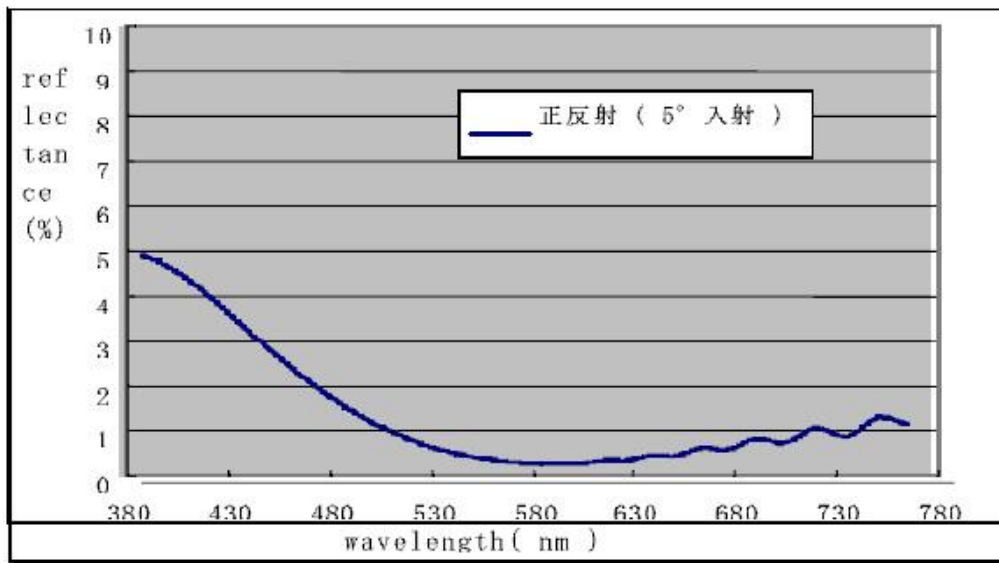


Fig. Reflectance versus wavelength