

## Anti-glare Molds

### Glare control with anti-glare surfaces

HT-AG-01 surfaces are used to control glare from displays, optical devices, but also non-optical surfaces. Disturbing reflections are suppressed, therefore the viewer easily sees the content displayed on a screen and not the reflected images of bright windows and light sources. Anti-glare surfaces are useful in bright environments, offices and under varying lighting conditions. Anti-glare surfaces can be produced on films without seamlines for large area applications. The HT-AG standard mold type was specifically designed for R&D work, as well as for product and process development.

Some of the most important additional features of HT-AG-01 surfaces are

- It is an ultrathin surface layer of only a few  $\mu\text{m}$  thickness
- Hides fingerprints
- Transmittance is as high as on glossy flat display

### How HT-AG-01 works

HT-AG is a specifically designed surface structure with an irregular surface pattern. It diffuses light into very small angles in order to suppress specular reflection from the surface while keeping the contrast high to ensure good readability of the display behind it. These holographic surfaces show a very high transmittance.

### HT-AG-01 applications

- Glare control on flat type display like desktop monitors, laptops, tablet PCs,
  - on public displays and signs,
  - on digital signage and e-book readers
- Touch membrane sensors
- Surface finish on furniture and home appliances
  - and on industrial equipment surfaces

### Users of HT-AG-01 molds

- Display screen manufacturers
- Film manufacturers

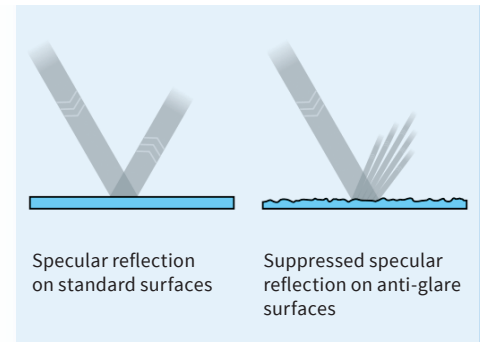
### Specifications

Structure type	Anti-glare
Optical function	Suppression of specular reflections
Diffusion angle (FWHM)*	about $1^\circ$
Material	Nickel
Mold thickness	$300\mu\text{m} \pm 5\%$
Mold size	100 mm x 100 mm
Active size	80 mm x 80mm
Haze value */**	2,23 % $\pm$ 0,05 %
Transmittance */**	92,2 % $\pm$ 0,05 %
Structure amplitude	up to $4\mu\text{m}$

\* embossed into a material with an optical index of refraction of 1.5

\*\* measured with Haze-gard plus from Byk-Gardener acc. to norm ASTM D1003

## HT-AG-01



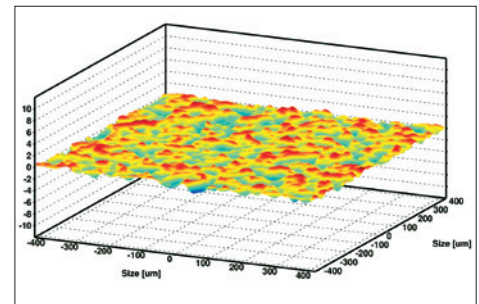
Schematic diagramm



Comparison without/with anti-glare structure



Microscope image



Confocal microscope image

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