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 µm 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**

<table>
<thead>
<tr>
<th>Structure type</th>
<th>Anti-glare</th>
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<tbody>
<tr>
<td>Optical function</td>
<td>Suppression of specular reflections</td>
</tr>
<tr>
<td>Diffusion angle (FWHM)*</td>
<td>about 1°</td>
</tr>
<tr>
<td>Material</td>
<td>Nickel</td>
</tr>
<tr>
<td>Mold thickness</td>
<td>300µm +/-5%</td>
</tr>
<tr>
<td>Mold size</td>
<td>100 mm x 100 mm</td>
</tr>
<tr>
<td>Active size</td>
<td>80 mm x 80 mm</td>
</tr>
<tr>
<td>Haze value <em>/</em>*</td>
<td>2,23 % +/- 0,05 %</td>
</tr>
<tr>
<td>Transmittance <em>/</em>*</td>
<td>92,2 % +/- 0,05 %</td>
</tr>
<tr>
<td>Structure amplitude</td>
<td>up to 4µm</td>
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</tbody>
</table>

* 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

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