Xensation™ is the answer to all of your cover and touch technology needs. SCHOTT is unique in being able to offer the broadest range of high-quality glass types for all cover and touch applications, including capacitive, resistive, optical and acoustic.

Xensation™ Cover AG is a high-quality alumino-silicate glass now available with a state-of-the-art anti-glare solution. In addition to offering the outstanding resistance to damage that Xensation™ Cover has become renowned for, Xensation™ Cover AG is designed to improve and/or optimize the readability and visibility of high resolution displays during use under adverse viewing conditions, such as bright sunlight or high ambient lighting.

**Key-Benefits of Xensation™ Cover AG**

- The world’s first ultra-strong cover glass with state-of-the-art anti-glare effect
- Significantly reduces glare on high resolution displays, even under adverse viewing conditions (bright sunlight, high ambient lighting)
- Uniform, homogenous surface modification offers improved visibility and smooth touch experience for consumers
- Unique surface structure optimized for easy cleaning and fingerprint resistance
- Flexibility of the novel etching process offers opportunities for custom gloss values
- Both chemical and thermal strengthening are compatible with Xensation™ Cover AG
- Mechanical and strength performance properties of the base glass are not affected by the surface treatment
## Sheet Dimensions

- **Sheet Size**: min. 475 x 575 mm, max. 950 x 680 mm
- **Thickness Range**: 0.5 - 3.0 mm

*Other sizes on request

## Chemical Strengthening

- **Compressive Stress**: capable > 900 MPa
- **Depth of Layer**: capable > 50 µm
- **4-Point Bending Strength**: cap. > 800 MPa

## Optical Properties

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>upon request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gloss (at 60 °)</td>
<td>60 (±10)</td>
<td>90 (±10)</td>
</tr>
<tr>
<td>Haze</td>
<td>13 %</td>
<td>7 %</td>
</tr>
<tr>
<td>Clarity</td>
<td>83 - 87 %</td>
<td>88 - 92 %</td>
</tr>
<tr>
<td>Resolution</td>
<td>better than 13 lines per mm</td>
<td></td>
</tr>
<tr>
<td>Non-sparkle effect</td>
<td>more than 5 peaks or etch pits per 100 µm linear</td>
<td></td>
</tr>
</tbody>
</table>

## Surface

<table>
<thead>
<tr>
<th>Property</th>
<th>Standard</th>
<th>upon request</th>
</tr>
</thead>
<tbody>
<tr>
<td>Gloss (at 60 °)</td>
<td>60 (±10)</td>
<td>90 (±10)</td>
</tr>
<tr>
<td>Surface roughness $R_z$ [µm]</td>
<td>~ 0.9</td>
<td>~ 0.7</td>
</tr>
<tr>
<td>Mean Roughness index $R_q$ [µm]</td>
<td>~ 0.13</td>
<td>~ 0.15</td>
</tr>
</tbody>
</table>

*Cooled according to DIN

## Mechanical Properties

- **Density**: 2.477 g/cm³*
- **Young’s Modulus $E$**: 74 kN/mm²
- **Poisson’s Ratio**: 0.215
- **Shear Modulus**: 30 kN/mm²
- **Knoop Hardness HK 0.1/20**: 534
- **Non-strengthened**: 534
- **Strengthened**: 639
- **Vickers Hardness HV 0.2/20**: 617
- **Non-strengthened**: 617
- **Strengthened**: 681

*Cooled according to DIN

Different types of surface structuring leading to different optical and touch properties (Source: Berliner Glas)

Influence of glass on “color brilliance” and image sharpness (Source: Berliner Glas)

in cooperation with

[Image of Berliner Glas logo]

**info.xensation@us.schott.com**

**www.us.schott.com/xensation**