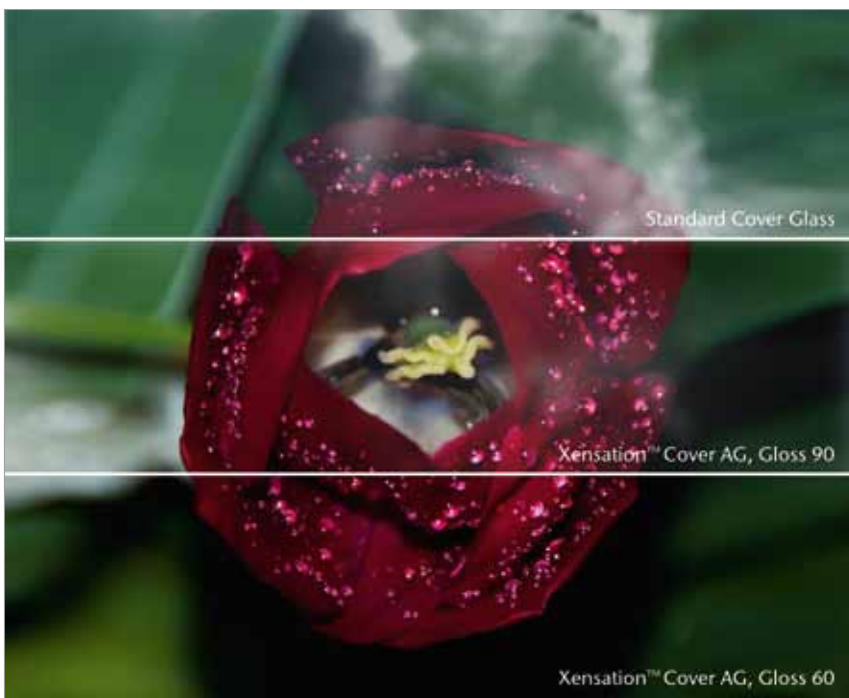


SCHOTT Xensation™ Cover AG

Alumino-Silicate Glass with Anti-Glare for Capacitive Touch Technologies

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.



The world's first ultra-strong cover glass with state-of-the-art anti-glare effect



Standard Cover Glass - Undesirable reflections



Xensation™ Cover AG - Significantly reduces glare, even under adverse viewing conditions (bright sunlight, 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**

Thermal Properties

Thermal Conductivity λ (25 °C)	0.96 W/(m•K)
Specific Heat Capacity C_p (20 °C; 100 °C)	0.84 KJ/(Kg•K)
Coefficient of Mean Linear Thermal Expansion α (20 °C; 300 °C)	$8.8 \cdot 10^{-6} \text{ K}^{-1}$ *
Transformation Point T_g	615 °C*
Annealing Point (10^{13} dPas)	635 °C
Softening Point ($10^{7.6}$ dPas)	880 °C
Working Point (10^4 dPas)	1265 °C

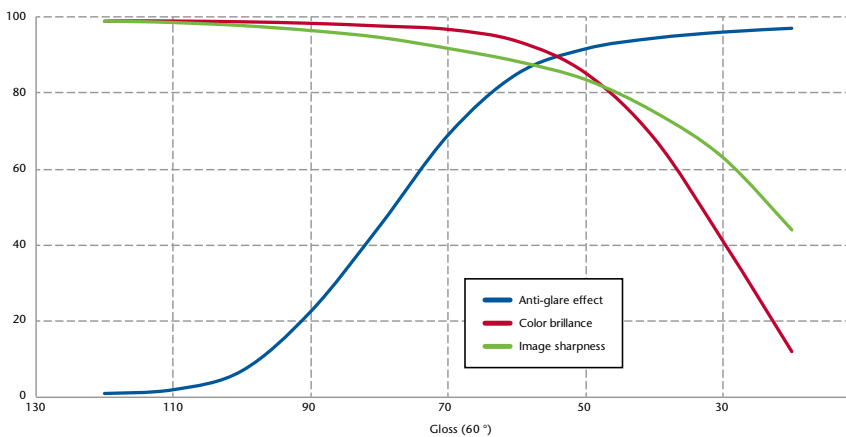
*Cooled according to DIN

Optical Properties

	Standard	upon request
Gloss (at 60 °)	60 (±10)	40 - 110 (±10)
Haze	13 %	3 - 18 %
Clarity	83 - 87 %	65 - 90 %
Resolution	better than 13 lines per mm	
Non-sparkle effect	more than 5 peaks or etch pits per 100 µm linear	

Surface

	Standard	upon request
Gloss (at 60 °)	60 (± 10)	40 - 110 (± 10)
Surface roughness R_z [µm]	~ 0.9	~ 0.7 - 1.4
Mean Roughness index R_a [µm]	~ 0.13	~ 0.15 - 0.2



Influence of gloss on "color brilliance" and image sharpness (Source: Berliner Glas)

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

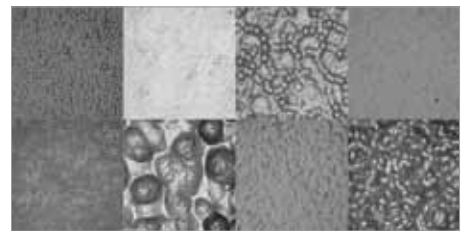
Chemical Strengthening

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

Mechanical Properties

Density	2.477 g/cm ³ *
Young's Modulus E	74 kN/mm ²
Poisson's Ratio	0.215
Shear Modulus	30 kN/mm ²
Knoop Hardness HK _{0.1/20}	
Non-strengthened	534
Strengthened	639
Vickers Hardness HV _{0.2/20}	
Non-strengthened	617
Strengthened	681

*Cooled according to DIN



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

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SCHOTT
glass made of ideas