

SCHOTT Xensation® Flex redefines the directly hot-formed ultra-thin glass family SCHOTT UTG® with its excellent ion-exchange performance.

Xensation® Flex is produced using SCHOTT's proprietary down-draw process. The process was first used in the 1960s for thin glass and has been continuously improved. Through this process, SCHOTT became the first company in the world to mass-produce ultra-thin glass with the ability to be chemically strengthened.

After processing, Xensation® Flex offers a bending radius down to 1 mm. This makes the material perfect for the constantly evolving consumer electronics market and allows customers to create innovative free-form display designs for bendable watches or foldable smartphones.





Ultra thin Xensation® Flex is part of our SCHOTT UTG® product family.



Ultra tough
The ability to be chemically strengthenable enable a high bending strength.



Ultra flexible
Xensation® Flex
can reach a
bending radius of
less than 1 mm
after processing.





SCHOTT Xensation® Flex

Technical specifications

	Property		Unit	Value
Thermal properties	Coefficient of thermal expension Transformation point	CTE $\alpha_{(20-300^{\circ}\text{C})}$ T _g	10 ⁻⁶ /K °C	8.7 621
Optical properties	Refractive index Transmission Abbe value	$n_{_{D}}$ $ au_{_{vD65}}$ $ au_{_{e}}$	- % -	1.5040 92.2 59.5
Mechanical properties	Density Young's modulus Poisson's ratio	ρ Ε μ	g/cm kN/mm² –	2.46 73.3 0.22
Electrical properties	Dielectric constant (1 GHz) Dissipation factor (1 GHz)	$\begin{array}{c} \epsilon_{r} \\ tan \ \delta \end{array}$		7.3 133 · 10 ⁻⁴
Chemical properties	Hydrolytic resistance class Acid resistance class Alkali resistance class	DIN ISO 719 DIN 12116 DIN ISO 695	- - -	HGB 2 S 4 A 1
Chemical strengthening*	Capability of compressive stress Capability of depth of layer	CS DoL	MPa μm	> 750 > 5

^{*} Chemical strengthening parameters depend on applications and glass thickness; for more professional advice, please consult SCHOTT



