

SCHOTT Xensation® Up.

고급 스마트폰용 화학강화 리튬 알루미늄 규산염 커버 글라스

주요 장점

- 스마트폰 낙하 성능 개선과 우수한 결과
- 뛰어난 강도와 가공성을 확보하기 위한 우수한 이온교환 성능
 - 강도 성능을 최대로 할 수 있는 유연함
 - 폭 넓은 이온교환 조건 범위
 - 이온교환 시간을 단축할 수 있는 옵션
- 우수한 기계적 신뢰성 확보를 위하여 균형 잡힌 CS 와 DoL 값

Mechanical properties*	
Density ρ	2.48 g/cm ³
Young's modulus E	82 kN/mm ²
Poisson's ratio ν	0.22
Shear modulus G	34 kN/mm ²
Vickers hardness HV_{0.2/20}	
unstrengthened	630
strengthened	680

Optical properties*			
Refractive index n at	365 nm	595 nm	640 nm
Core glass	1.546	1.521	1.520
K-exchanged layer	1.55	1.52	1.52
Photoelastic constant nm/(cm*MPa)	30.2	27.8	27.6
Transmittance T between 400 nm - 800 nm	> 91 %		

Thermal properties*	
Coefficient of mean linear Thermal expansion α (20 °C - 300 °C)	8.3 · 10 ⁻⁶ K ⁻¹
Transformation point T_g	525 °C
Annealing point (10 ¹³ dPas)	540 °C
Softening point (10 ^{7.6} dPas)	760 °C
Working point (10 ⁴ dPas)	1120 °C

Electrical properties*		
Frequency (MHz)	Dielectric constant (ϵ)	Loss tangent ($\tan \delta$)
54	7.3	0.007
480	7.1	0.008
825	7.1	0.009
912	7.1	0.009
1977	7.0	0.010
2170	7.0	0.010
2986	7.0	0.011

Chemical properties*	
Hydrolytic resistance acc. to DIN ISO 719	
Hydrolytic class	HGB 2
Equivalent of alkali Na ₂ O per gram of glass grains [μ g/g]	38
Acid resistance acc. to DIN 12 116	
Acid class	S 4 W
Half surface weight loss after 6 hours in mg/dm ²	19
Alkali resistance acc. to DIN ISO 695	
Class	A1
Surface weight loss after 3 hours in mg/dm ²	42

* Typical values

Chemical strengthening**	
Compressive stress (K-CS)	capable > 900 MPa
Depth of layer (Na-DoL)	capable > 150 μ m
4-Point bending strength	capable > 700 MPa

** Depending on chemical strengthening process.

Forms supplied***	
Thickness Range:	0.55 – 0.80 mm
Sheet size:	1,150 x 950 mm

*** Further thicknesses and sheet sizes are available on request.

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