

AF 45™ Thin Glass

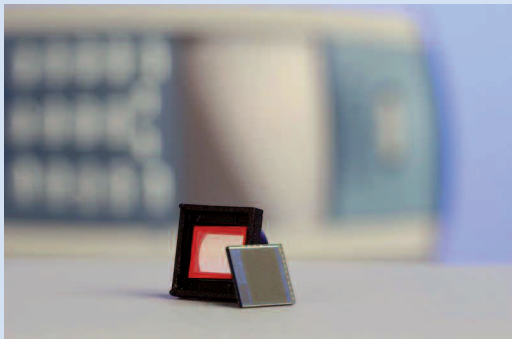
AF 45™ thin glass is an aluminoborosilicate glass produced by the down-draw method, which enables production in a very thin thickness range between 0.05 mm and 0.5 mm.

It is alkali-free and has an excellent surface quality. AF 45™ thin glass is very flat and has high transmission. Due to its high transformation temperature, AF 45™ thin glass can be used for high temperature applications up to approximately 600° C.

AF 45™ is available in stock sheets or in custom sized panels in round or square shapes according to your specifications.



Applications



Wafer Level Chip Size Packaging of Image Sensors

- Alkali-free in synthesis
- Coefficient of thermal expansion close to silicon
- Available in various thicknesses
- High luminous transmittance
- Low roughness due to fire-polished surface
- Tight thickness control

Technical Data

Dimensions	440 mm x 360 mm (17.3 in x 14.2 in), other sizes on request
Thicknesses	0.05 mm up to 0.5 mm
Luminous transmittance T_{VD65} (d = 0.5 mm)	91.8 %
Coefficient of mean linear thermal expansion α (20 °C; 300 °C) (static measurement)	$4.5 \cdot 10^{-6} \text{ K}^{-1}$
Transformation temperature T_g	662 °C
Dielectric constant ϵ_r at 1MHz	6.2
Refractive index n_D	1.5254
Density ρ (annealed at 40 °C/h)	2.72 g/cm ³

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