

SCHOTT Specialty Thin Glass for 3D Imaging and Sensing

Product Information

SCHOTT offers specialty thin glass varieties with excellent performance for applications in 3D imaging and sensing. Due to their excellent geometrical properties, optical characteristics and superior surface quality, specialty thin glasses provide flexibility in the design and manufacture of sensor and illumination in 3D imaging and sensing.

SCHOTT glass meets demanding standard imaging and sensing requirements and enables various stable and reliable glass solutions for 3D imaging and sensing components.

Specifications	Unit	Value*
Thickness (Capability)	mm	0.03 – 1.1
Thickness Tolerance**	µm	≤ 10 – 15 standard, ≤ 5 advance
TTV (Total Thickness Variation)**	µm	≤ 10 – 20 standard, ≤ 5 advance
Surface Roughness	nm	< 1 nm RMS
Refractive Index	n_d	1.47 – 1.53
Transmission	τ_{v065} in %	> 91
Abbe Value	v_e	58 – 66
CTE α (20°C – 300°C)	$10^{-6}/^{\circ}\text{K}$	3.2 – 9.4
Transformation Point T_g	°C	550 – 735
Density ρ	g/cm^3	2.2 – 2.6
Young's Modulus E	kN/mm^2	62 – 83
Knoop Hardness	HK 0.1/20	430 – 590

*More other values upon request, **Depending on thickness

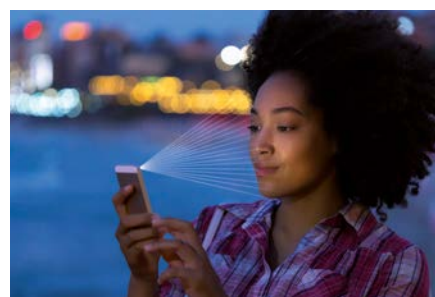
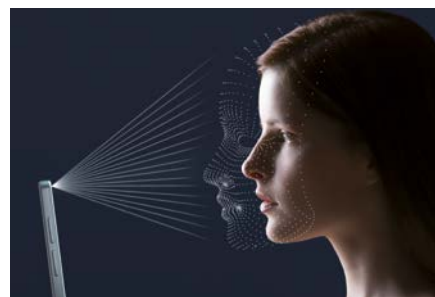
Potential Applications

SCHOTT specialty thin glass can be used in the solutions of Time of Flight (ToF), Structured Light, Stereo Vision and Dual-camera for 3D imaging and sensing.

SCHOTT Specialty Thin Glass applications in 3D imaging and sensing

- CMOS Image Sensor Cover
- Wafer Level Packaging (WLP)
- Wafer Level Optics (WLO)
- IR-cut Filter
- Narrow Band Filters
- Diffractive Optics Element (DOE)
- Camera Lens Cover

SCHOTT provides various glass solutions for 3D imaging and sensing components!



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SCHOTT
glass made of ideas