

Glass Wafer for Supporting Semiconductors

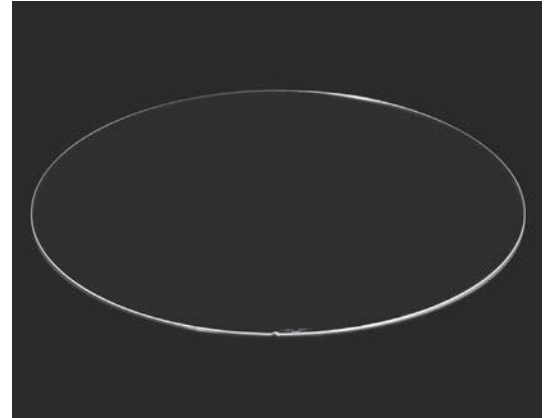
Various CTE*¹ glass wafers are available as substrates for supporting semiconductors.

Features

- Various CTE glass are available.
- TTV*² < 1μm (φ12 inches)
- T7 code is available

*1 Coefficient of thermal expansion

*2 Total thickness variation



Properties

Properties / Glass Code			ABC-G	A58	A66S	A69	A75	A91S
CTE	20-220°C	ppm/°C	3.6	5.6	6.3	6.6	7.2	8.7
	20-260°C	ppm/°C	3.7	5.7	6.4	6.7	7.3	8.8
Young's modulus		GPa	73	70	77	74	75	70
Dielectric constant	1MHz, 25°C		5.3	6.2	6.5	6.8	6.9	7.7
tan δ	1MHz, 25°C		0.001	0.02	0.01	0.01	0.01	<0.03
Volume resistivity Log ρ	150°C	Ω · cm	–	8.1	8.1	8.3	8	7.1
	250°C	Ω · cm	–	–	6.8	–	6.2	–

Other CTE glass are available upon request.

Applications

- Substrates for supporting Fan-Out packages
- Substrates for supporting compound semiconductors
- Substrates for supporting for grinding process