

# Glass Wafer for Supporting Semiconductors

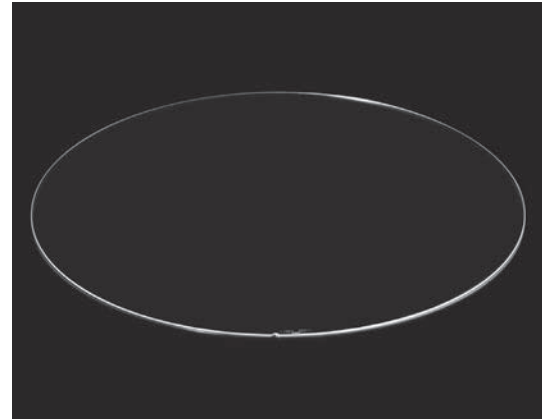
Various CTE\*<sup>1</sup> glass wafers are available as substrates for supporting semiconductors.

## Features

- Various CTE glass types are available.
- TTV\*<sup>2</sup> < 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 types of CTE glass are available upon request.

## Applications

- Substrates for supporting advanced packages
- Substrates for supporting compound semiconductors
- Substrates for supporting grinding processes