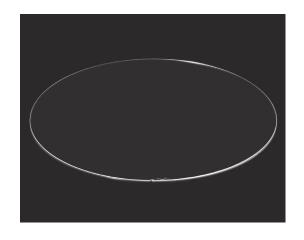
# Others

# **Glass Wafer for Supporting Semiconductors**

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

#### **Features**

- Various CTE glass types are available.
- •TTV\*2  $< 1\mu$ m ( $\phi$ 12 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
СТЕ	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 p	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