

Float Glass Wafers - Spécification FLOAT/DS

Rev. 1.0 / 12.07.00 GAR

1. Material Parameters

1.1 Growth method	Melted, cleaned (DI water)
1.2 Resistivity	$\log R (\Omega\text{cm})$ 25°C = 9.7 @ 1000Hz
1.3 Composition	SiO ₂ : 70.8%, Na ₂ O : 13.9%, K ₂ O : 0.4%, CaO : 8.4%, MgO : 4.4%, Al ₂ O ₃ : 1.5%, Fe ₂ O ₃ : 0.08%, SO ₃ : 0.3%
1.4 Orientation	None, Amorphous
1.5 Thermal strain point	490 °C
1.6 Transformation point	555 °C
1.7 Softening point	585 °C
1.8 Young modulus / Poisson ratio	E= 70 ±2 GPa, 0.23 ± 0.01
1.9 Thermal expansion coef.	8.0 ± 0.2 10 ⁻⁶ /K @ 0 to 100 °C
1.10 Thermal conductivity	0.95 Wm ⁻¹ K @ 20 °C
1.11 Refractive index (visible range)	1.52 ± 0.005

2. Dimensional Parameters

2.1 Diameter	100 0/-0.3 mm
2.2 Thickness	550 ± 10 µm
2.3 Primary flat orientation	None
2.4 Primary flat length	32.5 ± 2.5 mm
2.10 Planerity	< 10 µm / Ø 50 mm
2.11 Edge contour	Mechanical buffing wheel

3. Front Surface Parameters

Not specified, optical polished

4. Back Surface Parameters

Not specified, optical polished

5. Supplier

Guinchard, optical glass Switzerland

Other information available by Dr. Ph. Flückiger