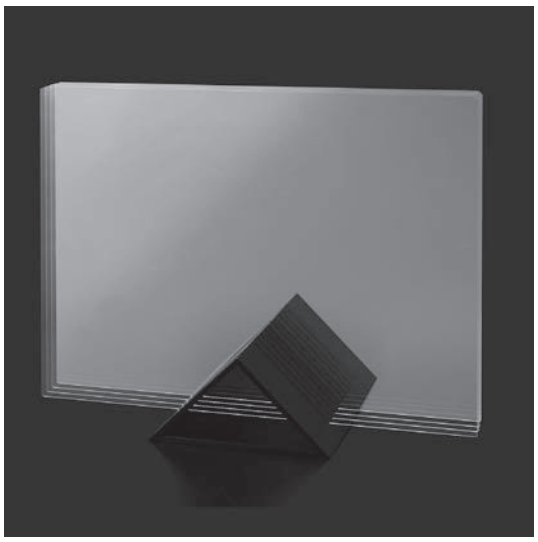
OA-20

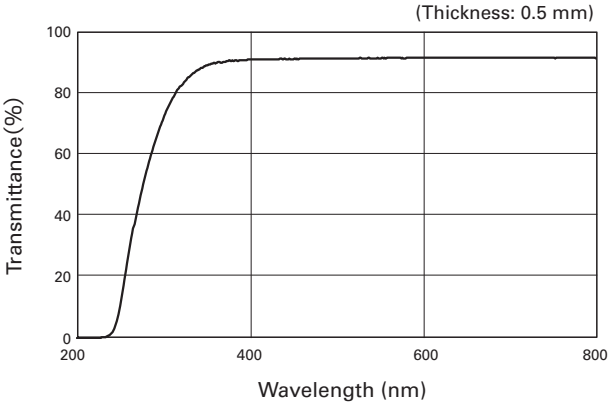
OA-20 is glass substrate for use in displays. It is most suitable for high-definition displays via oxide TFT (IGZO) and OLED displays, as well as in-vehicle displays that require high rigidity. OA-20 is available in large substrates of G8.5 and above. We believe it will contribute greatly to the development of next-generation high-performance displays.



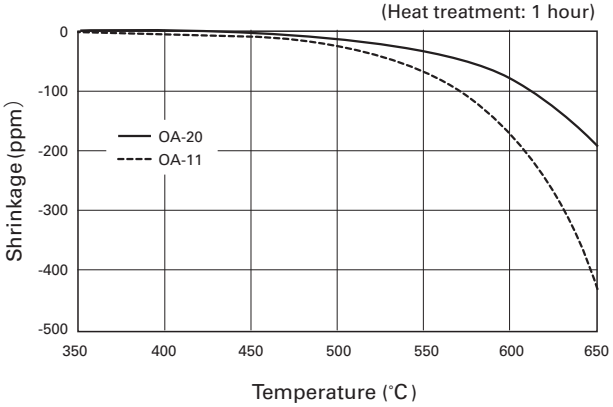
Features

1. **Low thermal compaction**
   Excellent thermal dimensional stability in the IGZO process and the high-temperature OLED display manufacturing process
2. **High Young's modulus**
   Minimal sag
3. **Superior optical properties**
   High light transmittance
4. **Smooth surface**
   A significantly smooth surface is derived from the overflow process.
5. **Upsizing**
   Large sizes of G8.5 or greater are offered.

Transmittance



Thermal Shrinkage



Properties

Properties/Glass Code			**OA-20**
Strain point		°C	725
Young's modulus		GPa	83
Density		$\times 10^3$kg/m^3	2.55
Coefficient of thermal expansion	30-380°C	$\times 10^{-7}$/K	37
Poisson's ratio			0.2
Vickers hardness	Hv		670
Volume resistivity log ρ	350°C	Ω・cm	13.0
Dielectric constant	1MHz, RT		5.7
tan δ	1MHz, RT		0.001
Light transmittance	λ = 550nm	%	91
Refractive index (n_d)	587.6nm		1.53
Chemical durability	10% HCl (80°C-60min)		No visual change
	63 BHF (20°C-3min)		No visual change
Alkali oxide content		wt%	0.1 max.
As, Sb content		wt%	Less than 0.1