

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 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

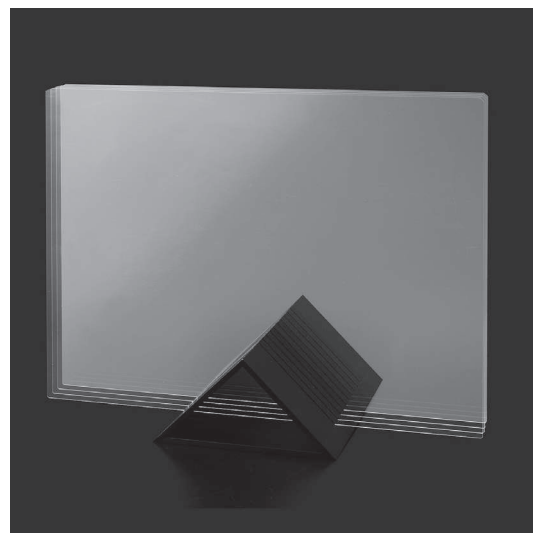
High light transmittance

4. Smooth surface

A significantly smooth surface is derived from the overflow process.

5. Upsizing

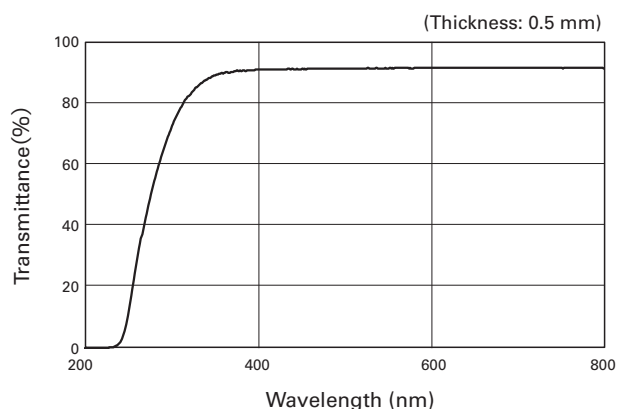
Large sizes of G8.5 or greater are offered.



Properties

Properties/Glass Code			OA-20
Strain point	°C		725
Young's modulus	GPa		83
Density		$\times 10^3 \text{kg/m}^3$	2.55
Coefficient of thermal expansion	30-380°C	$\times 10^{-7}/\text{K}$	37
Poisson's ratio			0.2
Vickers hardness	Hv		670
Volume resistivity $\log \rho$	350°C	$\Omega \cdot \text{cm}$	13.0
Dielectric constant	1MHz, RT		5.7
$\tan \delta$	1MHz, RT		0.001
Light transmittance	$\lambda = 550\text{nm}$	%	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

Transmittance



Thermal Shrinkage

