OA-31

OA-31 is low thermal compaction glass that was developed as a glass substrate for LTPS display in smartphones and other mobile devices. The ratio of glass shrinkage caused by heat treatment was greatly reduced compared with conventional products. OA-31 has a significantly smooth surface and offers uniformity of thickness achieved through the overflow process. It is most suitable as a glass substrate for next-generation displays and carriers for flexible OLED displays.

Features

1. Low thermal compaction

Excellent thermal dimensional stability in extremely high-temperature processing such as LTPS 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. Small thickness deviation

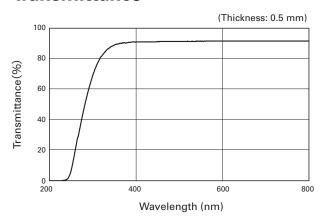
Uniformity of thickness is derived from the overflow process.

Properties

Properties/Glass Code			OA-31
Strain point		°C	750
Young's modulus		GPa	83
Density		$\times 10^3 kg/m^3$	2.64
Coefficient of thermal expansion	30-380°C	× 10-7/K	39
Poisson's ratio			0.25
Vickers hardness	Hv		680
Volume resistivity log p	350°C	Ω·cm	13.2
Dielectric constant	1MHz, RT		5.9
tan δ	1MHz, RT		0.002
Light transmittance	$\lambda = 550$ nm	%	91
Refractive index (n _d)	587.6nm		1.53
Chemical durability	10% HCI (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

