D 263® \textsuperscript{T} eco Thin Glass

D 263\textsuperscript{T} eco thin glass is a clear borosilicate glass that has a high chemical resistance and is produced by the down-draw method. It is available in a variety of thicknesses ranging from 0.03 mm to 1.1 mm. D 263\textsuperscript{T} eco borosilicate glass is available in standard stock size sheets or can be custom cut into round or square shapes. D 263\textsuperscript{T} eco thin glass is used as a substrate glass for coatings or replacement for plastic for applications in the automotive and electronics industries. D 263\textsuperscript{T} eco is manufactured without adding arsenic and antimony as refining agents.

Applications

Resistive touch panel for built-in car navigation
- Stable against sunlight and heat
- Not permeable to humidity
- Flexibility is similar to that of plastic
- Easy to cut by laser or scribe and break method

Optocaps in laser diodes
- High luminous transmittance
- Easy to process
- Coefficient of thermal expansion match with metals for hermetic sealings

Substrate glass for IR cut-off filter for camera modules in mobile phones
- High luminous transmittance
- Easy to dice by diamond saw
- Coatings adhere well due to excellent surface quality
- Smooth surface for coatings without previous polishing
- Range of thin thicknesses enables easy adaptation for future product miniaturization

Technical Data

| Dimensions | 440 mm x 360 mm (17.3 in x 14.2 in), other sizes on request |
| Thicknesses | 0.03 mm up to 1.1 mm |
| Luminous transmittance $T_{\text{VD65}} (d = 1.1 \text{ mm})$ | 91.7% |
| Coefficient of mean linear thermal expansion $\alpha (20 \degree \text{C} ; 300 \degree \text{C})$ (static measurement) | $7.2 \cdot 10^{-6} \text{K}^{-1}$ |
| Transformation temperature $T_g$ | 557 °C |
| Dielectric constant $\varepsilon_r$ at 1MHz | 6.7 |
| Refractive index $n_D$ | 1.5230 |
| Density $\rho$ (annealed at 40 °C/h) | 2.51 g/cm\(^3\) |

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