D 263® T eco Thin Glass

D 263® 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® T eco borosilicate glass is available in standard stock size sheets or can be custom cut into round or square shapes. D 263® 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® 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

<table>
<thead>
<tr>
<th>Dimension</th>
<th>440 mm x 360 mm (17.3 in x 14.2 in), other sizes on request</th>
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</thead>
<tbody>
<tr>
<td>Thickness</td>
<td>0.03 mm up to 1.1 mm</td>
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<tr>
<td>Luminous transmittance $T_{\text{VD65}}$ (d = 1.1 mm)</td>
<td>91.7 %</td>
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<tr>
<td>Coefficient of mean linear thermal expansion $\alpha$ (20 °C; 300 °C) (static measurement)</td>
<td>$7.2 \cdot 10^{-6} \text{ K}^{-1}$</td>
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<tr>
<td>Transformation temperature $T_g$</td>
<td>557 °C</td>
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<tr>
<td>Dielectric constant $\varepsilon_r$ at 1MHz</td>
<td>6.7</td>
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<tr>
<td>Refractive index $n_D$</td>
<td>1.5230</td>
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<tr>
<td>Density $\rho$ (annealed at 40 °C/h)</td>
<td>2.51 g/cm³</td>
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</tbody>
</table>

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