P16.31

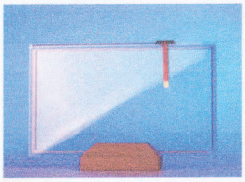
D 263® T eco Thin Glass

D 263® T eco thin glass is a clear borosilicate glass that has a high chemical resistance and is produced by a SCHOTT specific down-draw method. It is available in a variety of thicknesses ranging from 0.03 mm to 1.1 mm.

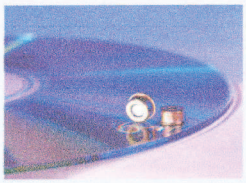
D 263® T eco borosilicate glass is available in standard stock size sheets or can be custom cut into round or square shapes.

D 263® T eco thin glass is used as substrate glass for coatings or as replacement for plastic for applications in the automotive and electronics industries.
D 263® T eco is manufactured with eco-friendly refining agents.

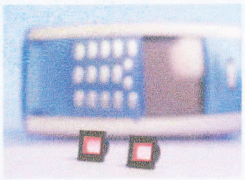
Applications



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, other size on request
Thicknesses	0.03 mm up to 1.1 mm
Luminous transmittance τ_{vD65} (d = 1.1 mm)	91.7 %
Coefficient of mean linear thermal expansion α (20 °C; 300 °C) (static measurement)	$7.2 \cdot 10^{-6}\ K^{-1}$
Transformation temperature Tg	557 °C
Dielectric constant ε_r at 1MHz	6.7
Refractive index n_D	1.5230
Density ρ (annealed at 40 °C/h)	$2.51\ g/cm^3$

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SCHOTT
glass made of ideas

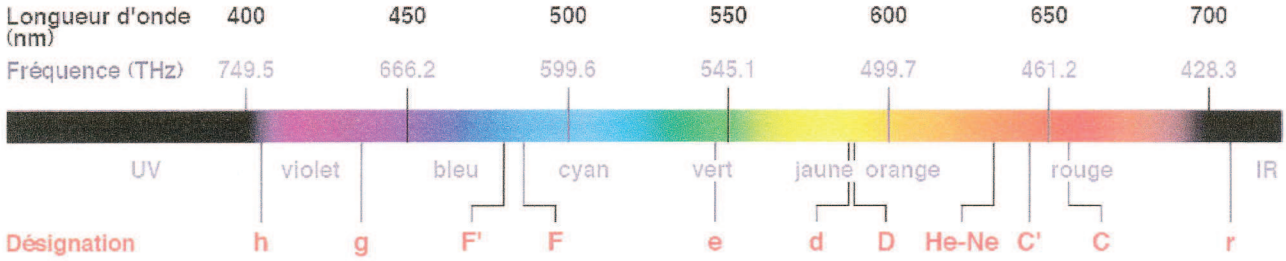
Optical Properties

Refractive Indices

n_g	1.5354
$n_{F'}$	1.5305
n_F	1.5300
n_e	1.5255 +/- 0.0015
n_d	1.5231
n_D	1.5230
$n_{C'}$	1.5209
n_C	1.5204

Abbe Value

v_e	55



Désignation	Longueur d'onde (nm)	
h	404.6561	Raie violette du mercure (Hg)
g	435.8343	Raie bleue du mercure (Hg)
F'	479.9914	Raie bleue du cadmium (Cd)
F	486.1327	Raie bleue de l'hydrogène (H)
e	546.0740	Raie verte du merure (Hg)
d	587.5618	Raie jaune de l'hélium (He)
D	589.2938	Centre des 2 raies jaunes du sodium (Na)
	632.8000	Laser hélium-néon (He-Ne)
C'	643.8469	Raie rouge du cadmium (Cd)
C	656.2725	Raie rouge de l'hydrogène (H)
r	706.5188	Raie rouge de l'hélium (He)

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