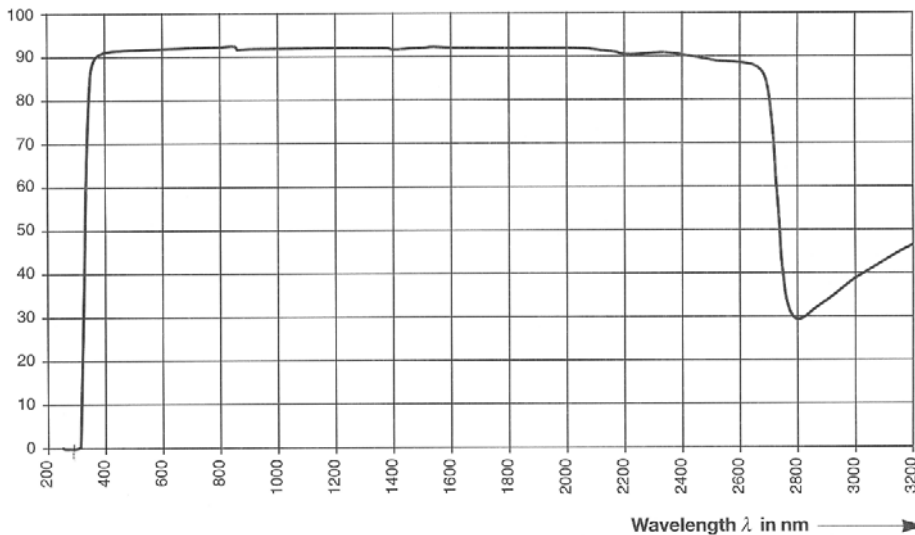


D263T with its specific properties and the large range of thickness with tight tolerances is exceptionally well suited for a number of applications in passive matrix liquid crystal displays, touch control panels and solar technologies. Due to a special down draw production process the glass sheets are marked by fire-polished surfaces. D263T is a borosilicate glass that is produced by melting very pure raw materials. As such it is very resistant to chemical attack.

The features are that it is easy to cut, high luminous transmittance, low mobility of alkali ions, high chemical resistance and excellent flatness. The subsequent properties are based primarily upon the measuring results of the very latest standards and measuring methods. Schott Displayglas retains the right to change the data in keeping with the latest technical standards. Non-tolerance numerical values are reference values of an average production quality.

SPECTRAL TRANSMITTANCE



Mechanical Properties

Density ρ in g/cm ³ (annealed at 40°C/h)	2.51
Stress Optical Coefficient C in 1.02 · 10 ⁻¹² m ² /N	3.4
Young's Modulus E in kN/mm ²	72.9
Torsion Modulus G in kN/mm ²	30.1
Knoop Hardness HK ₁₀₀	590

Thermal Properties

Viscosity and Corresponding Temperature		
Designation	Viscosity log η [dPas]	Temperature θ [°C]
Strain Point	14.5	529
Annealing Point	13.0	557
Softening Point	7.6	736
Coefficient of thermal expansion a		
Coefficient of Mean Linear Thermal Expansion α _(20-300°C) in 10 ⁻⁶ K ⁻¹ (Static Measurement)		7.2

Chemical Properties

Hydrolytic resistance acc. To DIN ISO 719	
Hydrolytic class	HGB 1
Equivalent of Alkali (Na ₂ O) per gram of glass grains in ug/g	20
Acid resistance acc. To DIN 12116	
Acid Class	2
Half Surface Weight Loss after 6 hours in mg/dm ²	1.4
Alkali Resistance acc. To DIN ISO 695	
Class	A 2
Surface Weight Loss after 3 hours in mg/dm ²	88

Electrical Properties

Dielectric Constant (Permittivity) ϵ at 1 MHz	6.7
Dissipation Factor $\tan \delta$ at 1 MHz	$61 \cdot 10^{-4}$
Electric Volume Resistivity ρ_D in $\Omega \cdot \text{cm}$ for alternating Current 50 HZ at the Specified Temperatures	
$\theta = 250 \text{ }^\circ\text{C}$	$1.6 \cdot 10^6$
$\theta = 350 \text{ }^\circ\text{C}$	$3.5 \cdot 10^6$

Optical Properties

Refractive Indices		
Pre treatment of Samples	n_g	1.5354
Condition as supplied ['as drawn']	$n_{F'}$	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
Abbé Value	v_e	55
Transmittance Data τ_λ - Individual Values in % (t = 1.1 mm)		
	λ [nm]	τ_λ [%]
	380	89.8
	632.8	91.8
	1064	92.0
Edge Wavelength λ_C ($\tau = 0.46$) in nm	329	
Luminous Transmittance τ_{VD65} in % (t=1.1 mm)	91.2	
t = 1.1 mm	91.7 ± 0.3	

WHILE EVERY ATTEMPT HAS BEEN MADE TO VERIFY THE SOURCE OF THE INFORMATION, NO RESPONSIBILITY IS ACCEPTED FOR ACCURACY OF DATA.

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