

OG515

Optical properties	
Reflection factor	
P_d	= 0,921
Spectral values guaranteed (d = 3 mm)	
λ_c ($\tau_i = 0,5$)	= 515 nm \pm 6 nm
λ_s ($\tau_{i,U} = 1E-05$)	= 440 nm
λ_p ($\tau_{i,L} = 0,93$)	= 580 nm
Refractive indices	
n_d (587,6 nm)	= 1,51
n_s (852 nm)	= 1,51
n_t (1014 nm)	= 1,50
Sellmeier coefficients	
on request	
Internal quality	
Bubble class	3

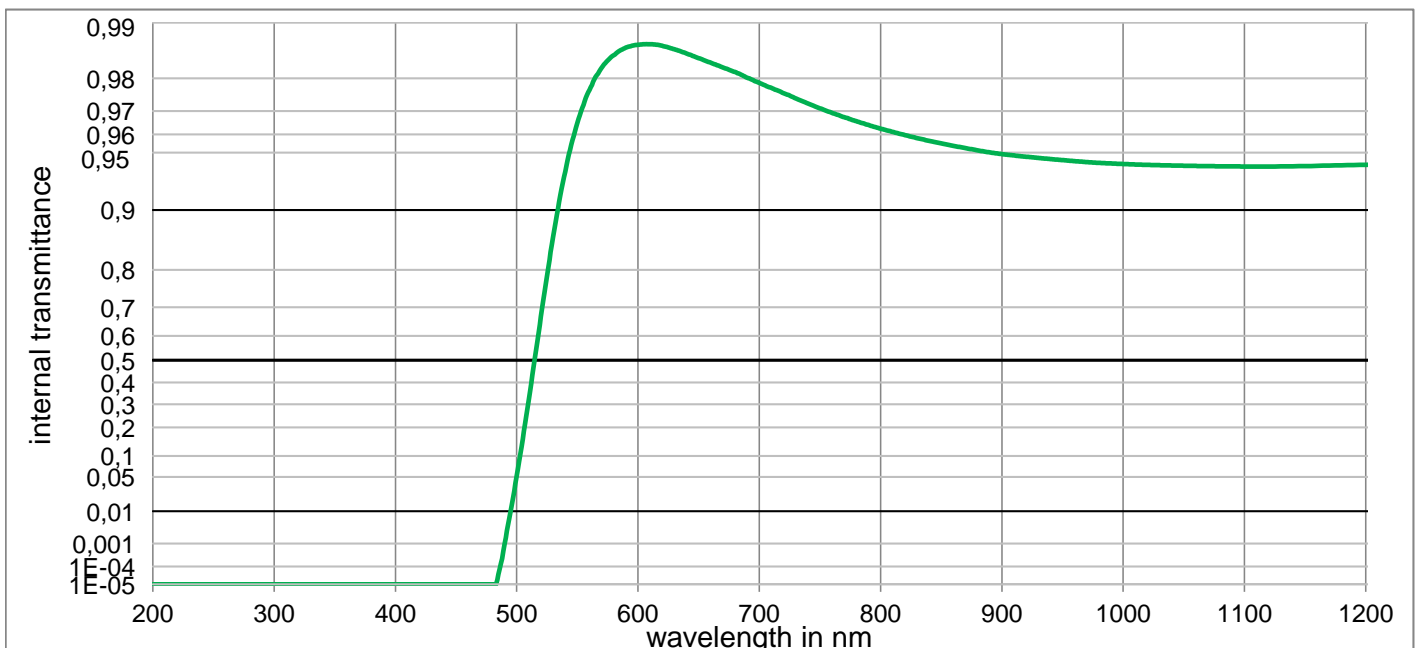
Mechanical properties	
Reference thickness	
d	= 3,00 mm
Density	
ρ	= 2,56 g/cm ³
Knoop hardness	
HK _[0.1/20]	= 455

Thermal properties	
Transformation temperature	
Tg	= 509 °C
Thermal expansion in 10⁻⁶/K	
α (-30°C/+70°C)	= 7,9
α (20°C/300°C)	= 9,0
Temperature coefficient	
Tk	= 0,11 nm/K

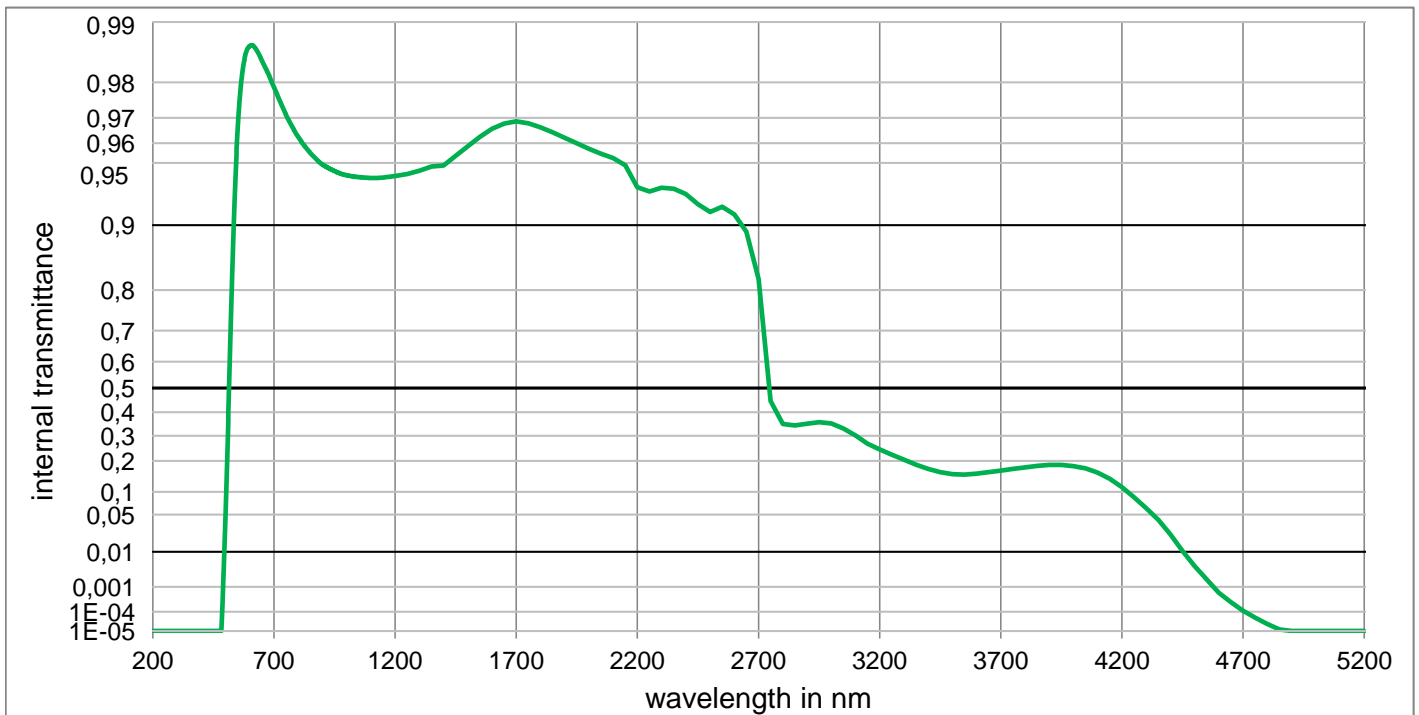
Chemical properties	
Chemical resistance	
FR class	= 0
SR class	= 1
AR class	= 1

Colormetric properties				
		1 mm	2 mm	3 mm
Illuminant D65	x	0,448	0,465	0,473
	y	0,516	0,519	0,515
	Y	81,5	77,9	75,4
	λ_d	573 nm	574 nm	575 nm
	P _e	0,902	0,958	0,969
Illuminant A	x	0,516	0,525	0,530
	y	0,468	0,466	0,463
	Y	86,5	84,1	82,3
	λ_d	582 nm	583 nm	583 nm
	P _e	0,896	0,945	0,957

Notes	
Stricking glass	
Longpass filter	
DIN 58131	
Disclaimer	
All data without tolerances are to be understood to be reference values	



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Internal transmittance τ_i at reference thickness

The internal transmittance values, tabulated and graphically represented, are reference values only

λ /nm	τ_i	λ /nm	τ_i	λ /nm	τ_i	λ /nm	τ_i	λ /nm	τ_i	λ /nm	τ_i
200	< 1,0E-05	500	5,093E-02	800	9,627E-01	1100	9,408E-01	2200	9,342E-01	3700	1,653E-01
210	< 1,0E-05	510	3,219E-01	810	9,612E-01	1110	9,408E-01	2250	9,311E-01	3750	1,708E-01
220	< 1,0E-05	520	6,692E-01	820	9,597E-01	1120	9,408E-01	2300	9,339E-01	3800	1,767E-01
230	< 1,0E-05	530	8,627E-01	830	9,582E-01	1130	9,408E-01	2350	9,332E-01	3850	1,817E-01
240	< 1,0E-05	540	9,370E-01	840	9,568E-01	1140	9,409E-01	2400	9,292E-01	3900	1,850E-01
250	< 1,0E-05	550	9,652E-01	850	9,553E-01	1150	9,411E-01	2450	9,207E-01	3950	1,850E-01
260	< 1,0E-05	560	9,769E-01	860	9,540E-01	1160	9,413E-01	2500	9,136E-01	4000	1,811E-01
270	< 1,0E-05	570	9,824E-01	870	9,527E-01	1170	9,414E-01	2550	9,185E-01	4050	1,729E-01
280	< 1,0E-05	580	9,850E-01	880	9,514E-01	1180	9,416E-01	2600	9,111E-01	4100	1,582E-01
290	< 1,0E-05	590	9,864E-01	890	9,501E-01	1190	9,418E-01	2650	8,926E-01	4150	1,380E-01
300	< 1,0E-05	600	9,868E-01	900	9,491E-01	1200	9,421E-01	2700	8,215E-01	4200	1,127E-01
310	< 1,0E-05	610	9,869E-01	910	9,482E-01	1250	9,434E-01	2750	4,471E-01	4250	8,609E-02
320	< 1,000E-05	620	9,867E-01	920	9,474E-01	1300	9,454E-01	2800	3,500E-01	4300	6,209E-02
330	< 1,000E-05	630	9,861E-01	930	9,467E-01	1350	9,479E-01	2850	3,433E-01	4350	4,140E-02
340	< 1,000E-05	640	9,853E-01	940	9,459E-01	1400	9,486E-01	2900	3,513E-01	4400	2,314E-02
350	< 1,000E-05	650	9,844E-01	950	9,452E-01	1450	9,538E-01	2950	3,569E-01	4450	1,039E-02
360	< 1,000E-05	660	9,835E-01	960	9,445E-01	1500	9,586E-01	3000	3,519E-01	4500	4,394E-03
370	< 1,000E-05	670	9,825E-01	970	9,439E-01	1550	9,628E-01	3050	3,310E-01	4550	1,743E-03
380	< 1,000E-05	680	9,815E-01	980	9,433E-01	1600	9,660E-01	3100	3,011E-01	4600	6,152E-04
390	< 1,000E-05	690	9,802E-01	990	9,429E-01	1650	9,680E-01	3150	2,673E-01	4650	2,588E-04
400	< 1,000E-05	700	9,789E-01	1000	9,426E-01	1700	9,688E-01	3200	2,440E-01	4700	1,117E-04
410	< 1,000E-05	710	9,774E-01	1010	9,422E-01	1750	9,681E-01	3250	2,238E-01	4750	5,117E-05
420	< 1,000E-05	720	9,760E-01	1020	9,419E-01	1800	9,666E-01	3300	2,048E-01	4800	2,449E-05
430	< 1,000E-05	730	9,744E-01	1030	9,417E-01	1850	9,647E-01	3350	1,862E-01	4850	1,211E-05
440	< 1,000E-05	740	9,727E-01	1040	9,415E-01	1900	9,624E-01	3400	1,707E-01	4900	< 1,000E-05
450	< 1,000E-05	750	9,710E-01	1050	9,413E-01	1950	9,599E-01	3450	1,598E-01	4950	< 1,000E-05
460	< 1,000E-05	760	9,693E-01	1060	9,412E-01	2000	9,574E-01	3500	1,533E-01	5000	< 1,000E-05
470	< 1,000E-05	770	9,676E-01	1070	9,410E-01	2050	9,549E-01	3550	1,517E-01	5050	< 1,000E-05
480	< 1,000E-05	780	9,660E-01	1080	9,409E-01	2100	9,526E-01	3600	1,549E-01	5100	< 1,000E-05
490	9,674E-04	790	9,644E-01	1090	9,408E-01	2150	9,486E-01	3650	1,601E-01	5150	< 1,000E-05