Data Sheet

GG395

Optical properties	
Reflection factor	
P_d	= 0,918
Spectral values guaranteed (d = 3 mm)	
$\lambda_{i\,0,5}$	= 395 nm ± 6 nm
λ_s ($\tau_{i,U}$ = 1E-05)	= 340 nm
λ_p ($\tau_{i,L}$ = 0,92)	= 480 nm
Refractive indices	
n_d (587,6 nm)	= 1,52
n_s (852 nm)	= 1,52
n_t (1014 nm)	= 1,51
Sellmeier coefficients	
on request	
Internal quality	
Bubble class	3

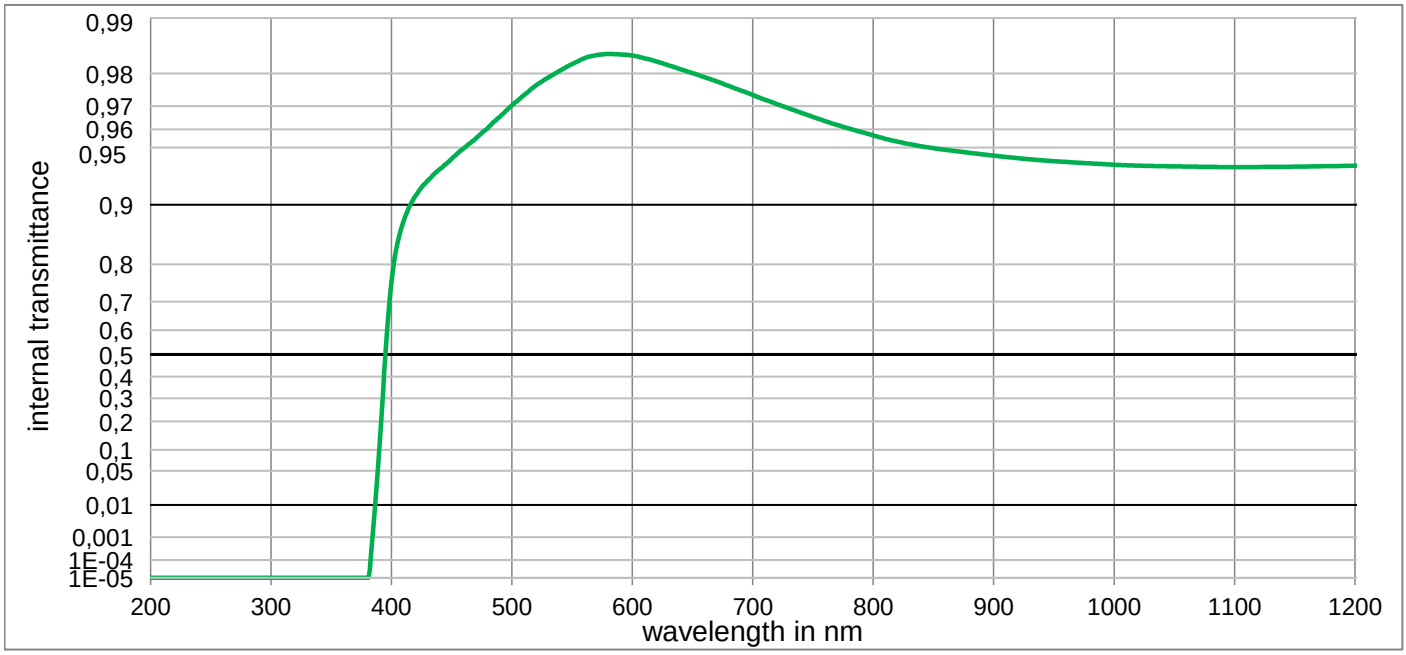
Mechanical properties	
Reference thickness	
d	= 3,00 mm
Density	
ρ	= 2,55 g/cm³
Knoop hardness	
$HK_{[0.1/20]}$	= 409

Thermal properties		
Transformation temperature		
Tg	= 538 °C	
Thermal expansion in		**10^{-6}/K**
$\alpha_{(-30°C/+70°C)}$	= 7,8	
$\alpha_{(20°C/300°C)}$	= 9,0	
Temperature coefficient		
Tk	= 0,07	nm/K

Chemical properties	
Chemical resistance	
FR class	= 0
SR class	= 1
AR class	= 1
Resistance against humidity	
Robust glass	
see pocket catalogue "Optical Filter Glass 2024", chapter 5.5	

Colormetric properties				
		1 mm	2 mm	3 mm
Illuminant D65	x	0,314	0,315	0,316
	y	0,331	0,332	0,334
	Y	91,1	90,5	89,8
	λ_d	570 nm	570 nm	571 nm
	P_e	0,008	0,016	0,023
Illuminant A	x	0,448	0,449	0,450
	y	0,408	0,409	0,410
	Y	91,1	90,6	90,0
	λ_d	581 nm	581 nm	581 nm
	P_e	0,010	0,020	0,030

Notes
Stricking glass
Longpass filter
ISO 23364:2021
Disclaimer
All data without tolerances are to be understood to be reference values.



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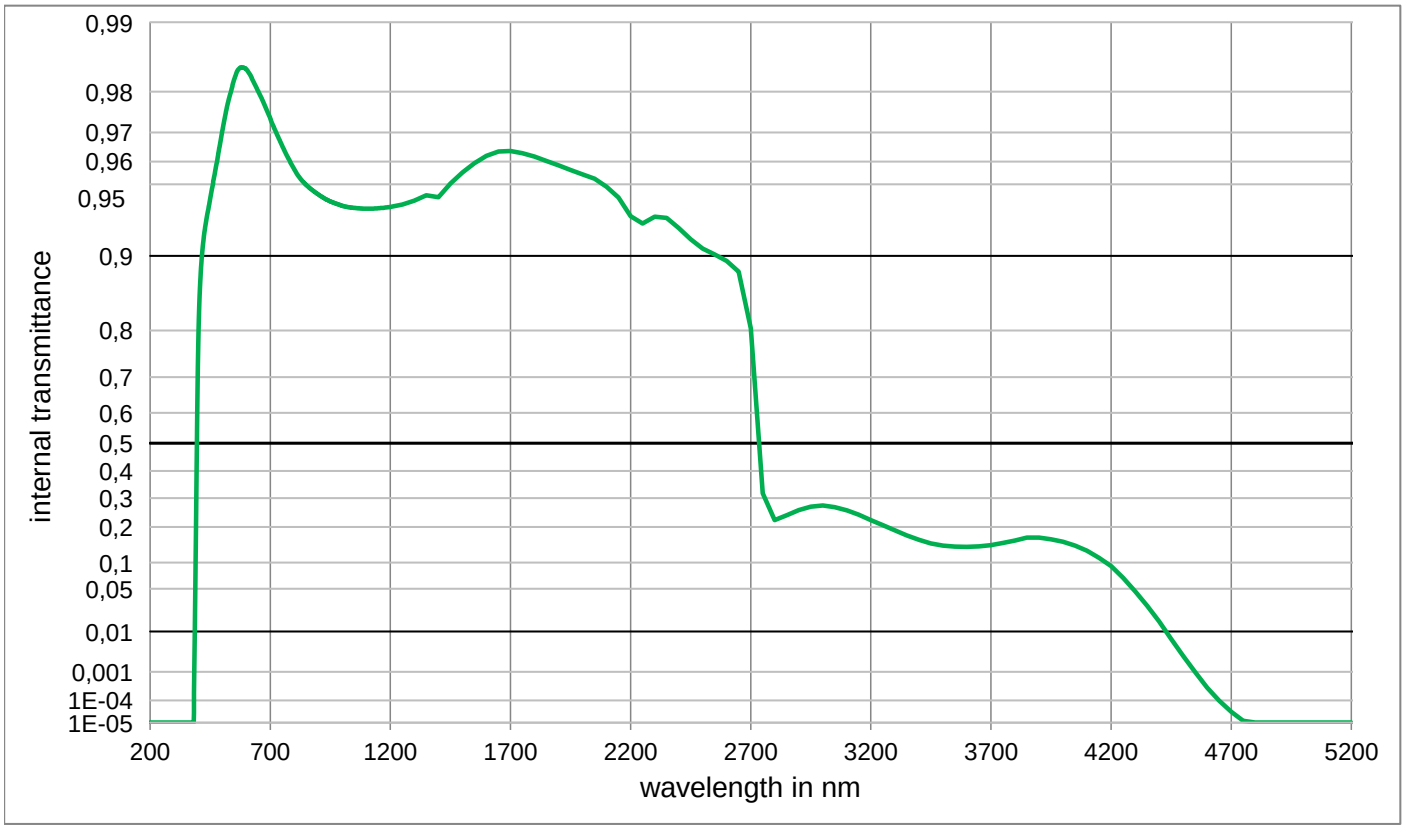

Internal transmittance ti at reference thickness
The internal transmittance values, tabulated and graphically represented, are reference values only

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	9,703E-01	800	9,569E-01	1100	9,365E-01	2200	9,318E-01	3700	1,448E-01
210	< 1,0E-05	510	9,738E-01	810	9,551E-01	1110	9,365E-01	2250	9,268E-01	3750	1,512E-01
220	< 1,0E-05	520	9,768E-01	820	9,535E-01	1120	9,366E-01	2300	9,315E-01	3800	1,583E-01
230	< 1,0E-05	530	9,789E-01	830	9,521E-01	1130	9,366E-01	2350	9,306E-01	3850	1,667E-01
240	< 1,0E-05	540	9,807E-01	840	9,507E-01	1140	9,367E-01	2400	9,235E-01	3900	1,668E-01
250	< 1,0E-05	550	9,823E-01	850	9,496E-01	1150	9,368E-01	2450	9,147E-01	3950	1,618E-01
260	< 1,0E-05	560	9,835E-01	860	9,486E-01	1160	9,369E-01	2500	9,067E-01	4000	1,544E-01
270	< 1,0E-05	570	9,841E-01	870	9,476E-01	1170	9,371E-01	2550	9,014E-01	4050	1,433E-01
280	< 1,0E-05	580	9,843E-01	880	9,467E-01	1180	9,372E-01	2600	8,950E-01	4100	1,295E-01
290	< 1,0E-05	590	9,842E-01	890	9,457E-01	1190	9,374E-01	2650	8,838E-01	4150	1,116E-01
300	< 1,0E-05	600	9,840E-01	900	9,448E-01	1200	9,376E-01	2700	8,040E-01	4200	9,191E-02
310	< 1,0E-05	610	9,835E-01	910	9,439E-01	1250	9,391E-01	2750	3,176E-01	4250	6,847E-02
320	< 1,000E-05	620	9,828E-01	920	9,431E-01	1300	9,414E-01	2800	2,228E-01	4300	4,612E-02
330	< 1,000E-05	630	9,819E-01	930	9,422E-01	1350	9,443E-01	2850	2,391E-01	4350	2,855E-02
340	< 1,000E-05	640	9,810E-01	940	9,416E-01	1400	9,433E-01	2900	2,571E-01	4400	1,568E-02
350	< 1,000E-05	650	9,801E-01	950	9,409E-01	1450	9,504E-01	2950	2,688E-01	4450	6,940E-03
360	< 1,000E-05	660	9,791E-01	960	9,404E-01	1500	9,555E-01	3000	2,738E-01	4500	2,800E-03
370	< 1,000E-05	670	9,779E-01	970	9,398E-01	1550	9,594E-01	3050	2,675E-01	4550	9,940E-04
380	< 1,000E-05	680	9,766E-01	980	9,393E-01	1600	9,622E-01	3100	2,561E-01	4600	3,013E-04
390	1,131E-01	690	9,753E-01	990	9,388E-01	1650	9,638E-01	3150	2,409E-01	4650	9,863E-05
400	7,568E-01	700	9,739E-01	1000	9,383E-01	1700	9,640E-01	3200	2,224E-01	4700	3,281E-05
410	8,785E-01	710	9,723E-01	1010	9,379E-01	1750	9,632E-01	3250	2,055E-01	4750	1,227E-05
420	9,102E-01	720	9,708E-01	1020	9,376E-01	1800	9,619E-01	3300	1,892E-01	4800	< 1,000E-05
430	9,252E-01	730	9,691E-01	1030	9,374E-01	1850	9,602E-01	3350	1,733E-01	4850	< 1,000E-05
440	9,348E-01	740	9,675E-01	1040	9,372E-01	1900	9,585E-01	3400	1,601E-01	4900	< 1,000E-05
450	9,427E-01	750	9,657E-01	1050	9,370E-01	1950	9,566E-01	3450	1,494E-01	4950	< 1,000E-05
460	9,495E-01	760	9,639E-01	1060	9,369E-01	2000	9,546E-01	3500	1,437E-01	5000	< 1,000E-05
470	9,553E-01	770	9,621E-01	1070	9,368E-01	2050	9,526E-01	3550	1,407E-01	5050	< 1,000E-05
480	9,606E-01	780	9,604E-01	1080	9,366E-01	2100	9,487E-01	3600	1,403E-01	5100	< 1,000E-05
490	9,658E-01	790	9,587E-01	1090	9,365E-01	2150	9,432E-01	3650	1,412E-01	5150	< 1,000E-05