Data Sheet

KG2

Optical properties			
Reflection factor			
	P_d	=	0,920
Spectral values guaranteed			
τ_i (365 nm)		≥	0,93
τ_i (500 nm)		≥	0,94
τ_i (600 nm)		≥	0,92
τ_i (700 nm)		≤	0,83
τ_i (800 nm)		≤	0,55
τ_i (900 nm)		≤	0,28
τ_i (1060 nm)		≤	0,12
τ_i (2200 nm)		≤	0,2
Refractive indices			
n_d (587,6 nm)		=	1,51
Sellmeier coefficients			
on request			
Internal quality			
Bubble class			3

Mechanical properties			
Reference thickness			
	d	=	2,00 mm
Density			
	ρ	=	2,52 g/cm³
Knoop hardness			
	HK[0.1/20]	=	444

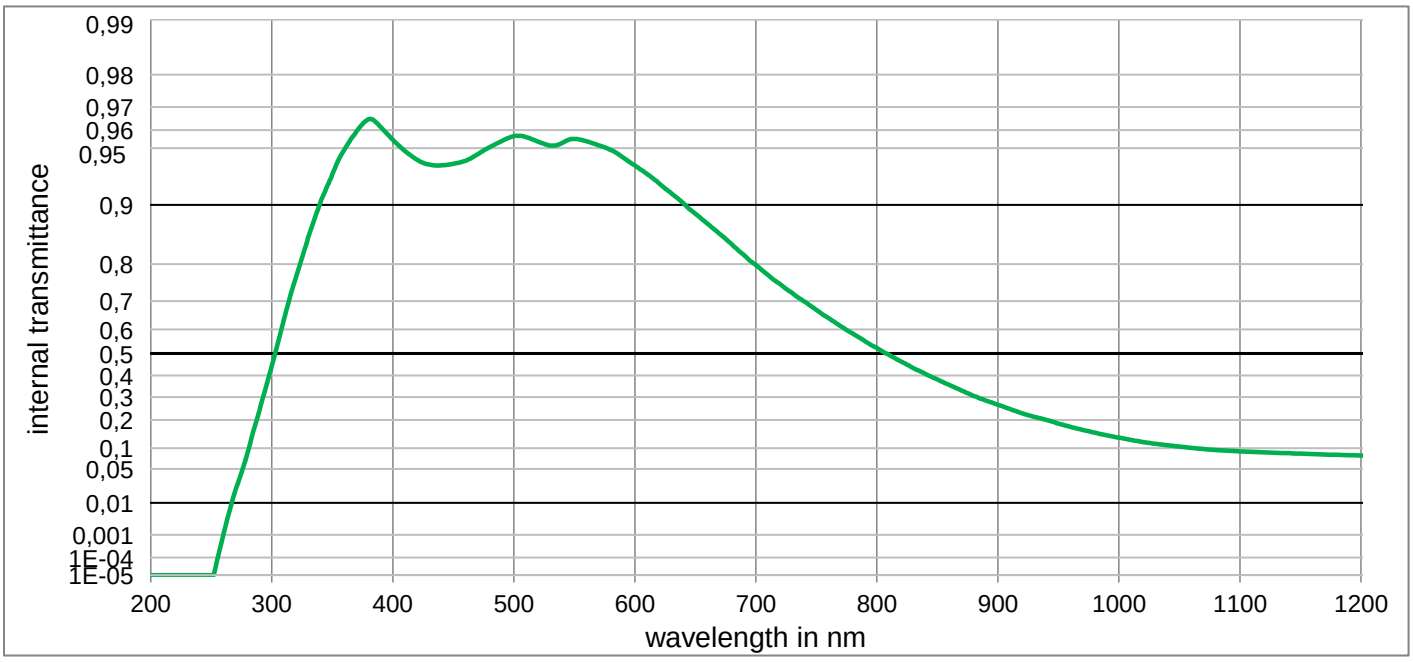
Thermal properties			
Transformation temperature			
	Tg	=	605 °C
Thermal expansion in			10^{-6}/K
	$\alpha_{(-30°C/+70°C)}$	=	5,4
	$\alpha_{(20°C/300°C)}$	=	6,3

Chemical properties			
Chemical resistance			
	FR class	=	0
	SR class	=	2
	AR class	=	3
Resistance against humidity			
Delicate glass			
see pocket catalogue "Optical Filter Glass 2024", chapter 5.5			

Colormetric properties				
		1 mm	2 mm	3 mm
Illuminant D65	x	0,312	0,311	0,310
	y	0,330	0,331	0,331
	Y	89,5	87,1	84,7
	λ_d	501 nm	501 nm	501 nm
	P_e	0,003	0,007	0,010
Illuminant A	x	0,446	0,444	0,442
	y	0,409	0,410	0,411
	Y	89,3	86,7	84,2
	λ_d	506 nm	507 nm	507 nm
	P_e	0,004	0,008	0,012

Notes
UV
Transmission changes are possible under the action of intense ultraviolet radiation.
Ionically colored glass
Shortpass filter
Heat protection filter
ISO 23364:2021

Disclaimer
All data without tolerances are to be understood to be reference values.



Data Sheet

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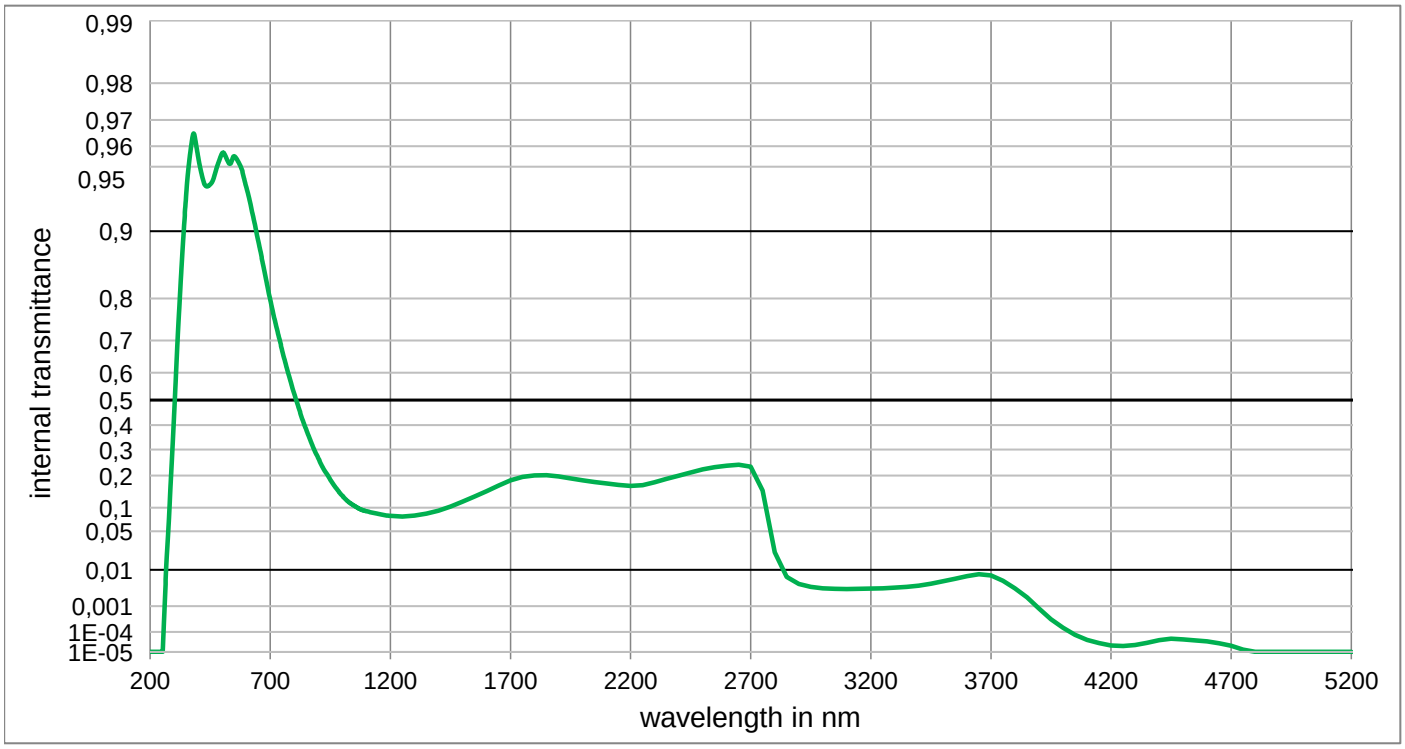

Internal transmittance ti at reference thickness
The internal transmittance values, tabulated and graphically represented, are reference values only

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	< 1,000E-05	500	9,569E-01	800	5,237E-01	1100	9,099E-02	2200	1,647E-01	3700	7,376E-03
210	< 1,000E-05	510	9,564E-01	810	4,940E-01	1110	8,975E-02	2250	1,671E-01	3750	5,454E-03
220	< 1,000E-05	520	9,538E-01	820	4,640E-01	1120	8,844E-02	2300	1,764E-01	3800	3,463E-03
230	< 1,000E-05	530	9,516E-01	830	4,342E-01	1130	8,715E-02	2350	1,885E-01	3850	1,917E-03
240	< 1,000E-05	540	9,531E-01	840	4,080E-01	1140	8,600E-02	2400	1,997E-01	3900	8,350E-04
250	< 1,000E-05	550	9,554E-01	850	3,822E-01	1150	8,470E-02	2450	2,114E-01	3950	3,360E-04
260	1,000E-03	560	9,541E-01	860	3,557E-01	1160	8,350E-02	2500	2,227E-01	4000	1,525E-04
270	2,000E-02	570	9,518E-01	870	3,300E-01	1170	8,252E-02	2550	2,311E-01	4050	7,328E-05
280	8,800E-02	580	9,489E-01	880	3,054E-01	1180	8,150E-02	2600	2,370E-01	4100	4,198E-05
290	2,450E-01	590	9,440E-01	890	2,840E-01	1190	8,070E-02	2650	2,404E-01	4150	2,924E-05
300	4,440E-01	600	9,380E-01	900	2,652E-01	1200	8,005E-02	2700	2,327E-01	4200	2,239E-05
310	6,372E-01	610	9,314E-01	910	2,457E-01	1250	7,868E-02	2750	1,493E-01	4250	2,065E-05
320	7,690E-01	620	9,230E-01	920	2,280E-01	1300	8,103E-02	2800	2,260E-02	4300	2,344E-05
330	8,522E-01	630	9,132E-01	930	2,130E-01	1350	8,550E-02	2850	6,823E-03	4350	3,020E-05
340	9,020E-01	640	9,020E-01	940	2,001E-01	1400	9,250E-02	2900	4,519E-03	4400	4,162E-05
350	9,310E-01	650	8,891E-01	950	1,850E-01	1450	1,028E-01	2950	3,811E-03	4450	4,823E-05
360	9,492E-01	660	8,750E-01	960	1,726E-01	1500	1,157E-01	3000	3,483E-03	4500	4,508E-05
370	9,593E-01	670	8,590E-01	970	1,611E-01	1550	1,305E-01	3050	3,357E-03	4550	4,009E-05
380	9,651E-01	680	8,407E-01	980	1,510E-01	1600	1,471E-01	3100	3,334E-03	4600	3,556E-05
390	9,615E-01	690	8,199E-01	990	1,415E-01	1650	1,651E-01	3150	3,357E-03	4650	2,884E-05
400	9,549E-01	700	7,980E-01	1000	1,333E-01	1700	1,835E-01	3200	3,420E-03	4700	2,143E-05
410	9,482E-01	710	7,740E-01	1010	1,259E-01	1750	1,951E-01	3250	3,491E-03	4750	1,346E-05
420	9,423E-01	720	7,499E-01	1020	1,189E-01	1800	2,007E-01	3300	3,614E-03	4800	< 1,000E-05
430	9,388E-01	730	7,250E-01	1030	1,133E-01	1850	2,011E-01	3350	3,793E-03	4850	< 1,000E-05
440	9,382E-01	740	6,990E-01	1040	1,089E-01	1900	1,971E-01	3400	4,130E-03	4900	< 1,000E-05
450	9,393E-01	750	6,710E-01	1050	1,047E-01	1950	1,905E-01	3450	4,645E-03	4950	< 1,000E-05
460	9,416E-01	760	6,428E-01	1060	1,009E-01	2000	1,834E-01	3500	5,333E-03	5000	< 1,000E-05
470	9,461E-01	770	6,130E-01	1070	9,748E-02	2050	1,776E-01	3550	6,109E-03	5050	< 1,000E-05
480	9,506E-01	780	5,840E-01	1080	9,478E-02	2100	1,724E-01	3600	7,119E-03	5100	< 1,000E-05
490	9,542E-01	790	5,530E-01	1090	9,283E-02	2150	1,676E-01	3650	7,893E-03	5150	< 1,000E-05