

S8008G

Optical properties	
Reflection factor	
P _d = 0,912	
Spectral values guaranteed	
Refractive indices	
n _h (404,7 nm) = 1,566	
n _e (546 nm) = 1,551	
n _d (587,6 nm) = 1,548	
Sellmeier coefficients	
valid from 440 nm to 1550 nm	
B ₁	0,8874
B ₂	0,4659
B ₃	21,3145
C ₁	1,137E-02 μm ²
C ₂	1,1165E-02 μm ²
C ₃	3495,165 μm ²
Internal quality	
Bubble class	0

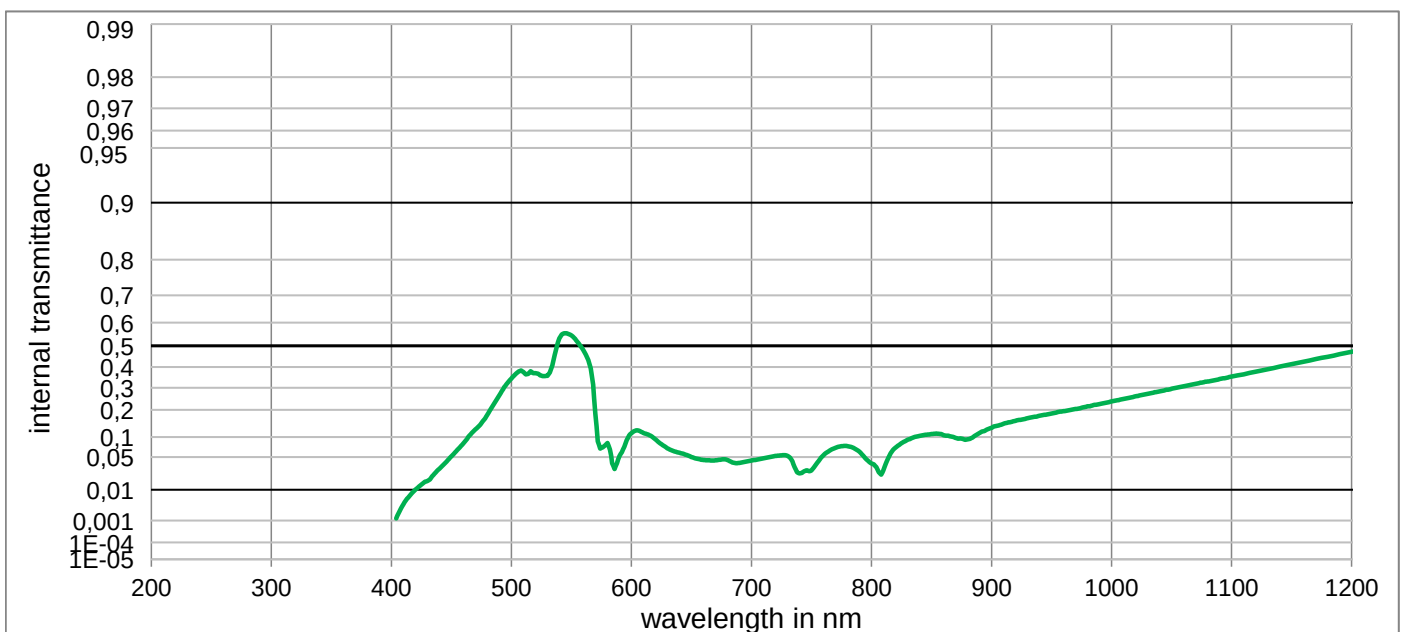
Mechanical properties	
Reference thickness	
d = 1,00 mm	
Density	
ρ = 2,78 g/cm ³	
Knoop hardness	
HK[0.1/20] = 569	

Thermal properties	
Transformation temperature	
T _g = 480 °C	
Thermal expansion in 10 ⁻⁶ /K	
α _(-30°C/+70°C) = 7,6	
α _(20°C/300°C) = 9,0	

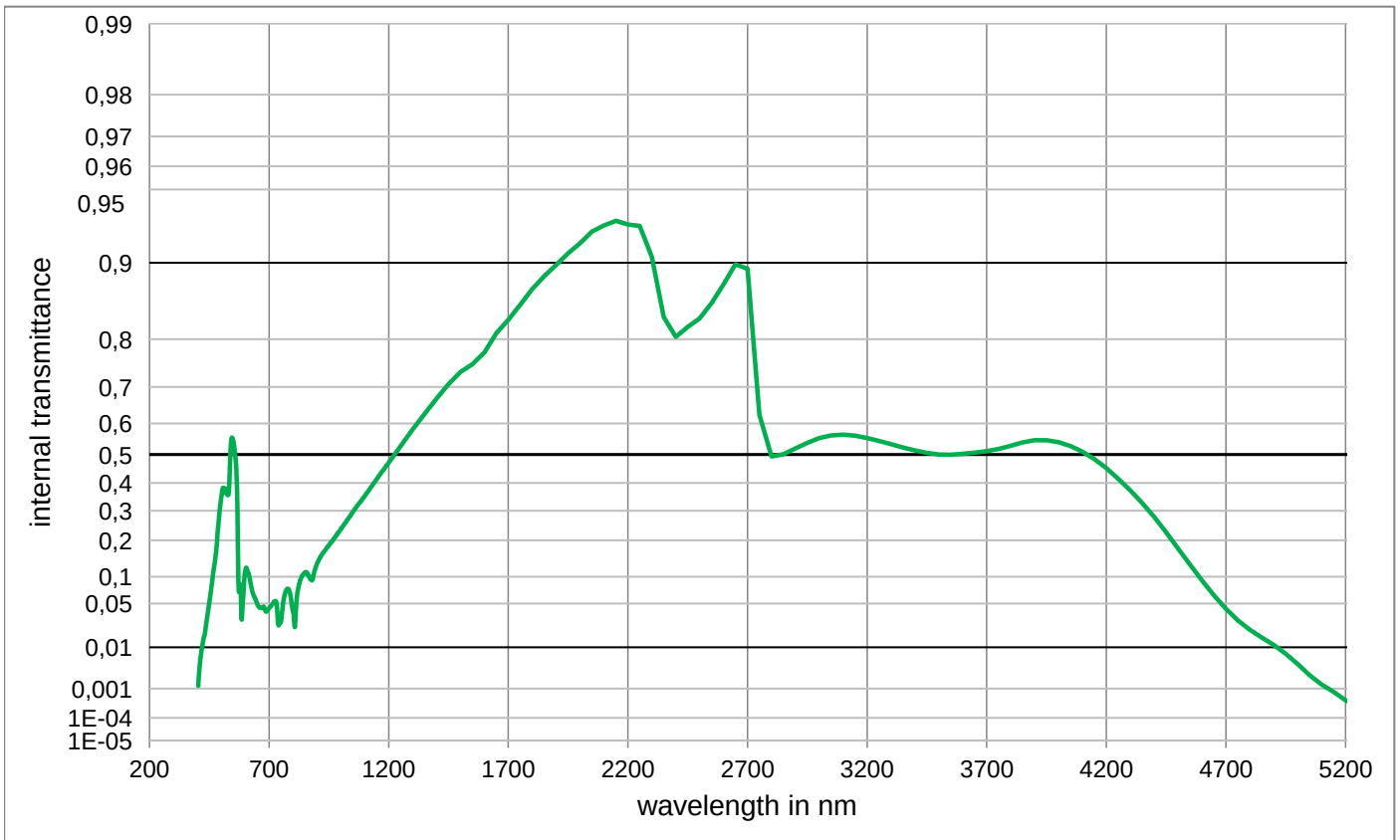
Chemical properties	
Chemical resistance	
FR class	
SR class = 1	
AR class = 1	
Resistance against humidity	
Resistant glass	
see pocket catalogue "Optical Filter Glass 2024", chapter 5.5	

Colormetric properties				
		1 mm	2 mm	3 mm
Illuminant D65	x			
	y			
	Y			
	λ _d			
	P _e			
Illuminant A	x			
	y			
	Y			
	λ _d			
	P _e			

Notes
Ionically colored glass
Contrast enhancement filter
ISO 23364:2021
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	3,449E-01	800	3,835E-02	1100	3,535E-01	2200	9,303E-01	3700	5,118E-01
210	< 1,0E-05	510	3,761E-01	810	2,828E-02	1110	3,650E-01	2250	9,292E-01	3750	5,188E-01
220	< 1,0E-05	520	3,701E-01	820	7,119E-02	1120	3,779E-01	2300	9,054E-01	3800	5,291E-01
230	< 1,0E-05	530	3,578E-01	830	9,166E-02	1130	3,891E-01	2350	8,359E-01	3850	5,408E-01
240	< 1,0E-05	540	5,335E-01	840	1,038E-01	1140	4,021E-01	2400	8,040E-01	3900	5,474E-01
250	< 1,0E-05	550	5,462E-01	850	1,097E-01	1150	4,136E-01	2450	8,206E-01	3950	5,475E-01
260	< 1,0E-05	560	4,795E-01	860	1,057E-01	1160	4,259E-01	2500	8,337E-01	4000	5,411E-01
270	< 1,0E-05	570	1,834E-01	870	9,770E-02	1170	4,384E-01	2550	8,554E-01	4050	5,286E-01
280	< 1,0E-05	580	8,299E-02	880	9,302E-02	1180	4,488E-01	2600	8,778E-01	4100	5,098E-01
290	< 1,0E-05	590	5,203E-02	890	1,124E-01	1190	4,617E-01	2650	8,986E-01	4150	4,845E-01
300	< 1,0E-05	600	1,122E-01	900	1,301E-01	1200	4,725E-01	2700	8,943E-01	4200	4,530E-01
310	< 1,0E-05	610	1,127E-01	910	1,449E-01	1250	5,288E-01	2750	6,253E-01	4250	4,152E-01
320	< 1,000E-05	620	9,318E-02	920	1,560E-01	1300	5,811E-01	2800	4,937E-01	4300	3,734E-01
330	< 1,000E-05	630	6,941E-02	930	1,658E-01	1350	6,280E-01	2850	5,009E-01	4350	3,278E-01
340	< 1,000E-05	640	5,888E-02	940	1,757E-01	1400	6,701E-01	2900	5,203E-01	4400	2,778E-01
350	< 1,000E-05	650	5,005E-02	950	1,848E-01	1450	7,065E-01	2950	5,390E-01	4450	2,258E-01
360	< 1,000E-05	660	4,456E-02	960	1,948E-01	1500	7,348E-01	3000	5,543E-01	4500	1,749E-01
370	< 1,000E-05	670	4,374E-02	970	2,037E-01	1550	7,519E-01	3050	5,634E-01	4550	1,294E-01
380	< 1,000E-05	680	4,445E-02	980	2,149E-01	1600	7,756E-01	3100	5,656E-01	4600	9,202E-02
390	< 1,000E-05	690	3,929E-02	990	2,249E-01	1650	8,104E-01	3150	5,620E-01	4650	6,337E-02
400	< 1,000E-05	700	4,328E-02	1000	2,371E-01	1700	8,315E-01	3200	5,546E-01	4700	4,275E-02
410	3,762E-03	710	4,748E-02	1010	2,480E-01	1750	8,530E-01	3250	5,450E-01	4750	2,920E-02
420	9,953E-03	720	5,215E-02	1020	2,598E-01	1800	8,725E-01	3300	5,346E-01	4800	2,065E-02
430	1,650E-02	730	5,249E-02	1030	2,716E-01	1850	8,867E-01	3350	5,240E-01	4850	1,526E-02
440	3,046E-02	740	2,429E-02	1040	2,827E-01	1900	8,979E-01	3400	5,139E-01	4900	1,114E-02
450	5,121E-02	750	2,797E-02	1050	2,950E-01	1950	9,084E-01	3450	5,054E-01	4950	7,390E-03
460	8,230E-02	760	5,401E-02	1060	3,073E-01	2000	9,168E-01	3500	5,000E-01	5000	4,413E-03
470	1,248E-01	770	7,056E-02	1070	3,189E-01	2050	9,254E-01	3550	4,990E-01	5050	2,345E-03
480	1,794E-01	780	7,483E-02	1080	3,307E-01	2100	9,295E-01	3600	5,022E-01	5100	1,315E-03
490	2,659E-01	790	6,097E-02	1090	3,420E-01	2150	9,326E-01	3650	5,062E-01	5150	7,920E-04