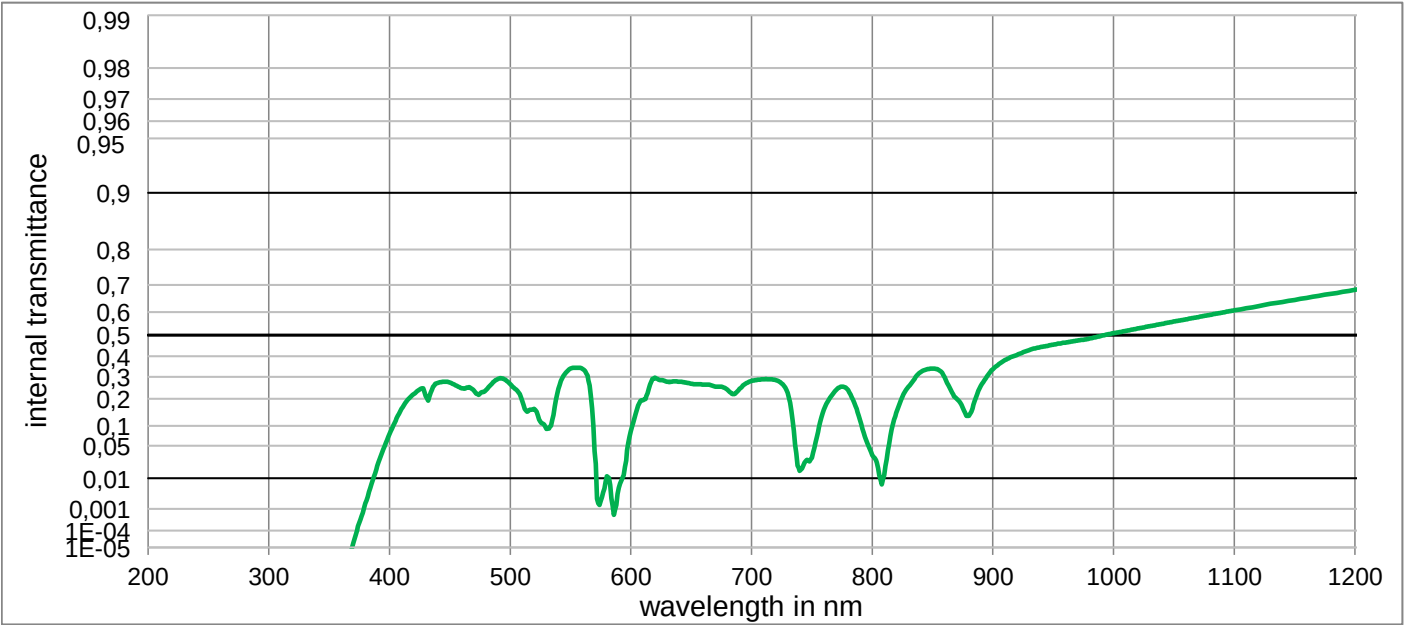
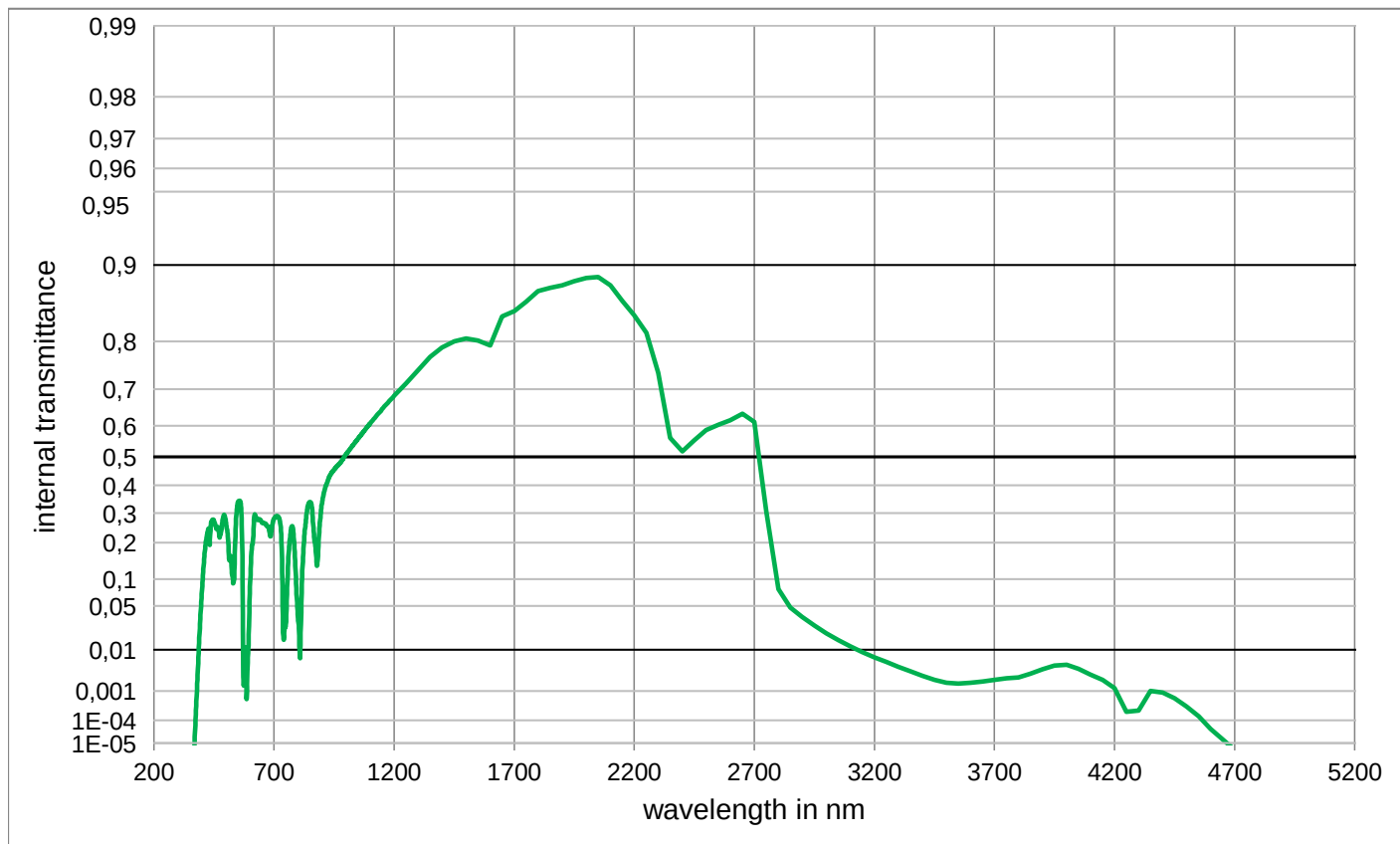


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Optical properties	Mechanical properties	Colorimetric properties
Reflection factor	Reference thickness	1 mm2 mm3 mm
$P_d = 0,906$	$d = 3,50 \text{ mm}$	Illuminant D65
Spectral values guaranteed	Density	x
$\tau_i (445 \text{ nm}) = 0,256 \pm 0,030$	$\rho = 2,91 \text{ g/cm}^3$	y
$\tau_i (555 \text{ nm}) = 0,32 \pm 0,015$	Knoop hardness	Y
$\tau_i (620 \text{ nm}) = 0,285 \pm 0,030$	$HK[0.1/20] = 474$	λ_d
$\tau_i (580 \text{ nm}) \leq 0,02$		P_e
	Thermal properties	Illuminant A
	Transformation temperature	x
	$T_g = 476 \text{ }^\circ\text{C}$	y
	Thermal expansion in $10^{-6}/\text{K}$	Y
Refractive indices		λ_d
$n_h (404,7 \text{ nm}) = 1,5895$	$\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 13,3$	P_e
$n_e (546 \text{ nm}) = 1,5726$		
$n_d (587,6 \text{ nm}) = 1,5698$		
	Chemical properties	Notes
Sellmeier coefficients	Chemical resistance	
valid from 440 nm to 1550 nm	FR class = 2	Ionically colored glass
$B_1 = 0,0144$	SR class = 5.4	Contrast enhancement filter
$B_2 = 1,4016$	AR class = 1.0	
$B_3 = 0,9378$	Resistance against humidity	ISO 23364:2021
$C_1 = 6,842\text{E-}03 \text{ } \mu\text{m}^2$	Resistant glass	
$C_2 = 1,2018\text{E-}02 \text{ } \mu\text{m}^2$	see pocket catalogue "Optical Filter Glass 2024", chapter 5.5	Disclaimer
$C_3 = 128,775 \text{ } \mu\text{m}^2$		All data without tolerances are to be understood to be reference values.
Internal quality		
Bubble class 0		



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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	2,658E-01	800	3,340E-02	1100	6,066E-01	2200	8,417E-01	3700	2,024E-03
210	< 1,0E-05	510	1,906E-01	810	1,205E-02	1110	6,152E-01	2250	8,148E-01	3750	2,243E-03
220	< 1,0E-05	520	1,596E-01	820	1,434E-01	1120	6,238E-01	2300	7,380E-01	3800	2,380E-03
230	< 1,0E-05	530	9,089E-02	830	2,533E-01	1130	6,326E-01	2350	5,627E-01	3850	2,934E-03
240	< 1,0E-05	540	2,436E-01	840	3,224E-01	1140	6,399E-01	2400	5,192E-01	3900	3,803E-03
250	< 1,0E-05	550	3,396E-01	850	3,397E-01	1150	6,475E-01	2450	5,543E-01	3950	4,622E-03
260	< 1,0E-05	560	3,388E-01	860	2,978E-01	1160	6,552E-01	2500	5,867E-01	4000	4,753E-03
270	< 1,0E-05	570	3,964E-02	870	2,009E-01	1170	6,624E-01	2550	6,025E-01	4050	3,844E-03
280	< 1,0E-05	580	1,122E-02	880	1,332E-01	1180	6,697E-01	2600	6,161E-01	4100	2,771E-03
290	< 1,0E-05	590	5,390E-03	890	2,573E-01	1190	6,766E-01	2650	6,349E-01	4150	2,056E-03
300	< 1,0E-05	600	8,358E-02	900	3,362E-01	1200	6,835E-01	2700	6,120E-01	4200	1,208E-03
310	< 1,0E-05	610	1,944E-01	910	3,809E-01	1250	7,141E-01	2750	3,092E-01	4250	2,104E-04
320	< 1,000E-05	620	2,958E-01	920	4,066E-01	1300	7,438E-01	2800	7,872E-02	4300	2,283E-04
330	< 1,000E-05	630	2,764E-01	930	4,304E-01	1350	7,714E-01	2850	4,772E-02	4350	1,002E-03
340	< 1,000E-05	640	2,770E-01	940	4,446E-01	1400	7,889E-01	2900	3,552E-02	4400	8,931E-04
350	< 1,000E-05	650	2,671E-01	950	4,556E-01	1450	8,002E-01	2950	2,660E-02	4450	6,020E-04
360	< 1,000E-05	660	2,641E-01	960	4,655E-01	1500	8,052E-01	3000	1,993E-02	4500	3,256E-04
370	1,993E-05	670	2,546E-01	970	4,745E-01	1550	8,012E-01	3050	1,517E-02	4550	1,419E-04
380	1,618E-03	680	2,402E-01	980	4,839E-01	1600	7,926E-01	3100	1,163E-02	4600	4,506E-05
390	1,990E-02	690	2,435E-01	990	4,972E-01	1650	8,400E-01	3150	8,979E-03	4650	1,515E-05
400	7,673E-02	700	2,805E-01	1000	5,088E-01	1700	8,474E-01	3200	6,989E-03	4700	< 1,000E-05
410	1,583E-01	710	2,892E-01	1010	5,192E-01	1750	8,599E-01	3250	5,516E-03	4750	< 1,000E-05
420	2,205E-01	720	2,842E-01	1020	5,300E-01	1800	8,727E-01	3300	4,325E-03	4800	< 1,000E-05
430	2,123E-01	730	2,264E-01	1030	5,402E-01	1850	8,763E-01	3350	3,401E-03	4850	< 1,000E-05
440	2,705E-01	740	1,541E-02	1040	5,502E-01	1900	8,791E-01	3400	2,616E-03	4900	< 1,000E-05
450	2,731E-01	750	3,008E-02	1050	5,604E-01	1950	8,835E-01	3450	2,041E-03	4950	< 1,000E-05
460	2,466E-01	760	1,564E-01	1060	5,696E-01	2000	8,871E-01	3500	1,717E-03	5000	< 1,000E-05
470	2,368E-01	770	2,397E-01	1070	5,794E-01	2050	8,882E-01	3550	1,632E-03	5050	< 1,000E-05
480	2,381E-01	780	2,379E-01	1080	5,887E-01	2100	8,792E-01	3600	1,720E-03	5100	< 1,000E-05
490	2,901E-01	790	1,188E-01	1090	5,980E-01	2150	8,611E-01	3650	1,863E-03	5150	< 1,000E-05