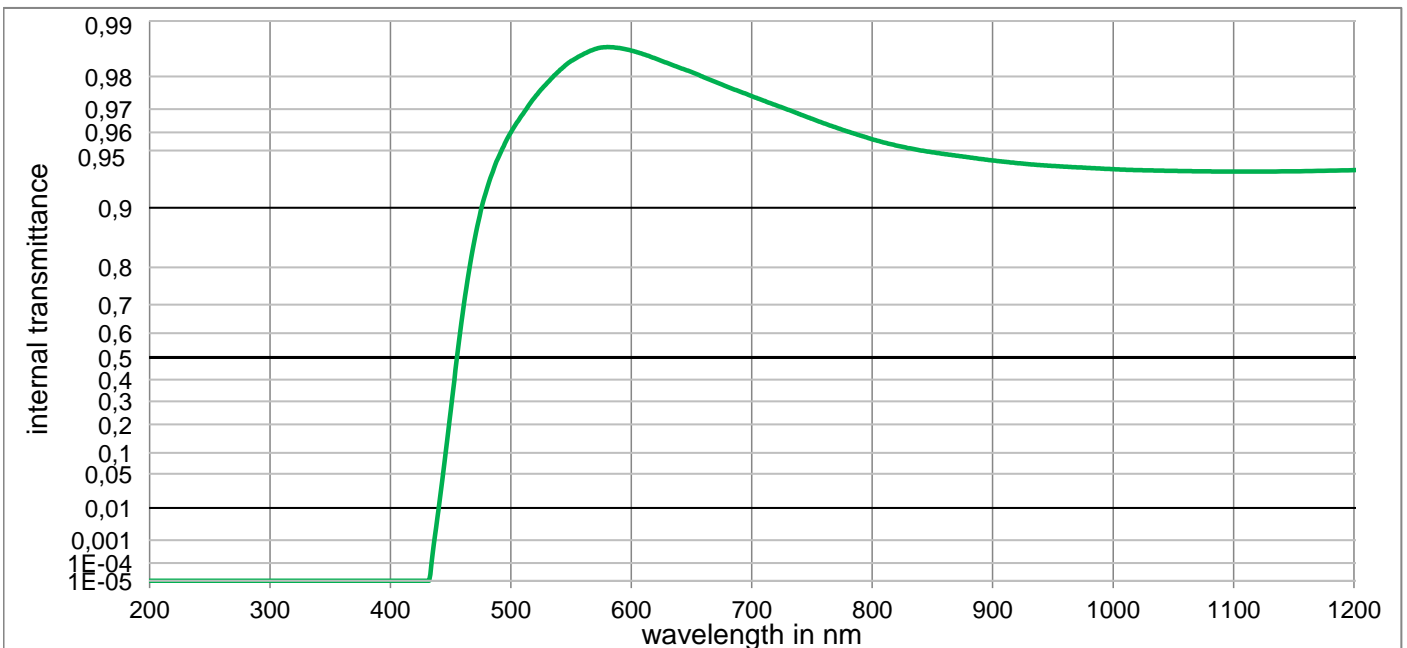
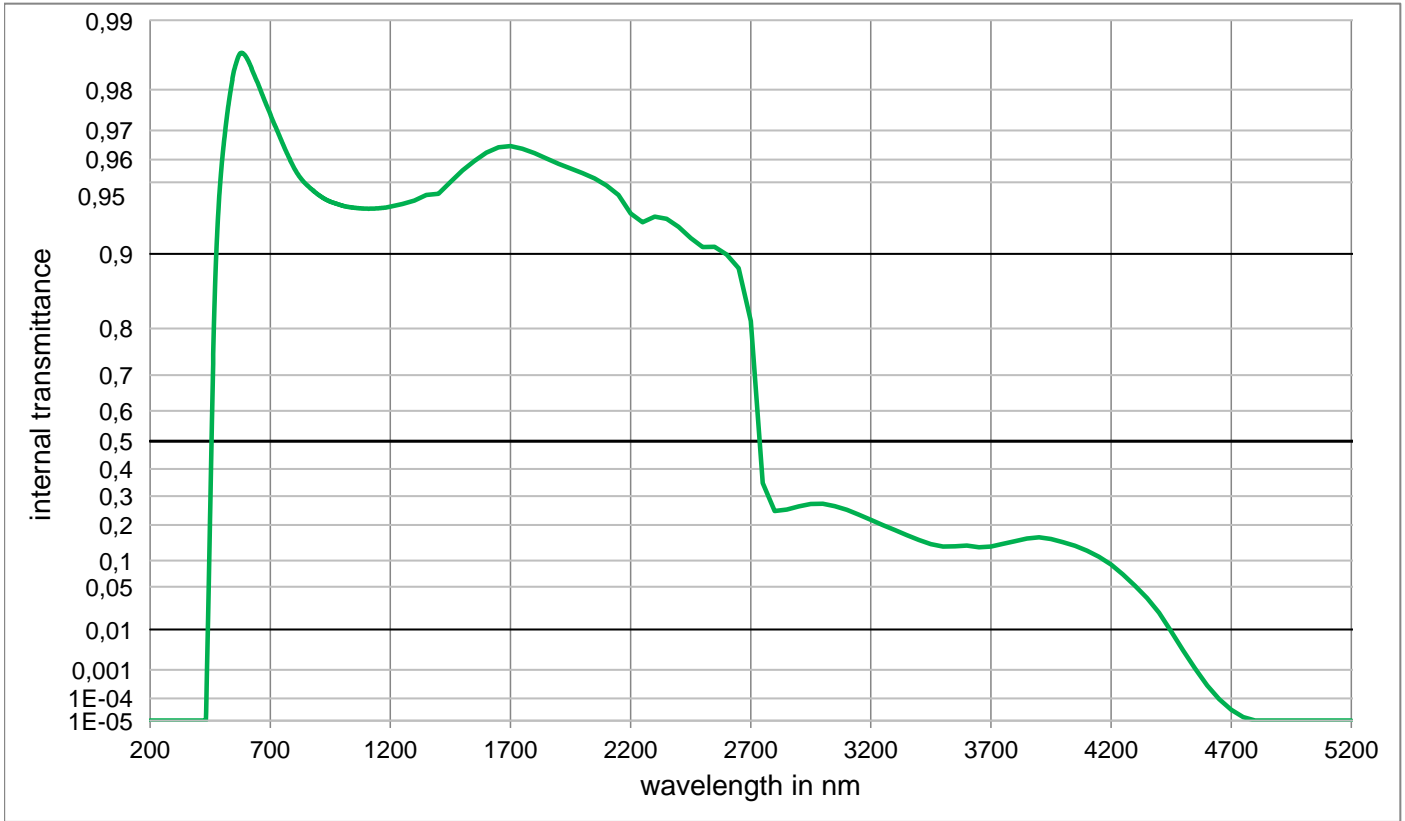


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Optical properties		Mechanical properties		Colorimetric properties				
Reflection factor		Reference thickness		1 mm 2 mm 3 mm				
$P_d = 0,918$		$d = 3,00 \text{ mm}$		Illuminant D65	x	0,344	0,354	0,361
Spectral values guaranteed (d = 3 mm)		Density			y	0,394	0,414	0,426
$\lambda_{i,0,5} = 455 \text{ nm} \pm 6 \text{ nm}$		$\rho = 2,56 \text{ g/cm}^3$			Y	90,5	89,7	88,9
$\lambda_s (\tau_{i,U} = 1E-05) = 390 \text{ nm}$		Knoop hardness			λ_d	568 nm	568 nm	568 nm
$\lambda_p (\tau_{i,L} = 0,92) = 530 \text{ nm}$		$HK_{[0,1/20]} = 445$			P_e	0,270	0,355	0,408
				Illuminant A	x	0,465	0,470	0,473
		Thermal properties			y	0,431	0,437	0,441
		Transformation temperature			Y	91,0	90,4	89,8
		$T_g = 529 \text{ }^\circ\text{C}$			λ_d	579 nm	580 nm	580 nm
		Thermal expansion in $10^{-6}/\text{K}$			P_e	0,282	0,364	0,415
		$\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 8,2$						
		$\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 9,5$						
Refractive indices		Temperature coefficient						
$n_d (587,6 \text{ nm}) = 1,52$		$Tk = 0,09 \text{ nm/K}$						
$n_s (852 \text{ nm}) = 1,52$								
$n_t (1014 \text{ nm}) = 1,51$								
Sellmeier coefficients								
on request								
Internal quality		Chemical properties		Notes				
Bubble class 3		Chemical resistance		Stricking glass				
		FR class = 0		Longpass filter				
		SR class = 1						
		AR class = 1						
		Resistance against humidity		ISO 23364:2021				
		Resistant glass		Disclaimer				
		see pocket catalogue "Optical Filter Glass 2024", chapter 5.5		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	9,600E-01	800	9,565E-01	1100	9,353E-01	2200	9,323E-01	3700	1,353E-01
210	< 1,0E-05	510	9,681E-01	810	9,547E-01	1110	9,353E-01	2250	9,263E-01	3750	1,428E-01
220	< 1,0E-05	520	9,741E-01	820	9,530E-01	1120	9,353E-01	2300	9,301E-01	3800	1,502E-01
230	< 1,0E-05	530	9,783E-01	830	9,515E-01	1130	9,354E-01	2350	9,287E-01	3850	1,579E-01
240	< 1,0E-05	540	9,813E-01	840	9,501E-01	1140	9,355E-01	2400	9,228E-01	3900	1,614E-01
250	< 1,0E-05	550	9,835E-01	850	9,489E-01	1150	9,356E-01	2450	9,141E-01	3950	1,566E-01
260	< 1,0E-05	560	9,848E-01	860	9,478E-01	1160	9,357E-01	2500	9,062E-01	4000	1,474E-01
270	< 1,0E-05	570	9,858E-01	870	9,467E-01	1170	9,358E-01	2550	9,066E-01	4050	1,372E-01
280	< 1,0E-05	580	9,861E-01	880	9,457E-01	1180	9,360E-01	2600	8,992E-01	4100	1,244E-01
290	< 1,0E-05	590	9,860E-01	890	9,446E-01	1190	9,363E-01	2650	8,855E-01	4150	1,092E-01
300	< 1,0E-05	600	9,855E-01	900	9,436E-01	1200	9,365E-01	2700	8,129E-01	4200	9,100E-02
310	< 1,0E-05	610	9,849E-01	910	9,426E-01	1250	9,381E-01	2750	3,480E-01	4250	7,064E-02
320	< 1,000E-05	620	9,840E-01	920	9,417E-01	1300	9,402E-01	2800	2,470E-01	4300	5,106E-02
330	< 1,000E-05	630	9,831E-01	930	9,409E-01	1350	9,434E-01	2850	2,521E-01	4350	3,463E-02
340	< 1,000E-05	640	9,821E-01	940	9,402E-01	1400	9,440E-01	2900	2,632E-01	4400	2,040E-02
350	< 1,000E-05	650	9,811E-01	950	9,396E-01	1450	9,502E-01	2950	2,713E-01	4450	9,120E-03
360	< 1,000E-05	660	9,798E-01	960	9,391E-01	1500	9,556E-01	3000	2,723E-01	4500	3,420E-03
370	< 1,000E-05	670	9,786E-01	970	9,386E-01	1550	9,595E-01	3050	2,640E-01	4550	1,100E-03
380	< 1,000E-05	680	9,772E-01	980	9,382E-01	1600	9,627E-01	3100	2,507E-01	4600	3,097E-04
390	< 1,000E-05	690	9,759E-01	990	9,377E-01	1650	9,646E-01	3150	2,344E-01	4650	9,484E-05
400	< 1,000E-05	700	9,745E-01	1000	9,372E-01	1700	9,650E-01	3200	2,168E-01	4700	3,236E-05
410	< 1,000E-05	710	9,730E-01	1010	9,368E-01	1750	9,640E-01	3250	1,998E-01	4750	1,500E-05
420	< 1,000E-05	720	9,714E-01	1020	9,365E-01	1800	9,625E-01	3300	1,836E-01	4800	< 1,000E-05
430	< 1,000E-05	730	9,698E-01	1030	9,363E-01	1850	9,605E-01	3350	1,681E-01	4850	< 1,000E-05
440	9,602E-03	740	9,680E-01	1040	9,361E-01	1900	9,583E-01	3400	1,540E-01	4900	< 1,000E-05
450	2,603E-01	750	9,662E-01	1050	9,359E-01	1950	9,563E-01	3450	1,421E-01	4950	< 1,000E-05
460	6,726E-01	760	9,643E-01	1060	9,357E-01	2000	9,543E-01	3500	1,357E-01	5000	< 1,000E-05
470	8,568E-01	770	9,623E-01	1070	9,356E-01	2050	9,519E-01	3550	1,359E-01	5050	< 1,000E-05
480	9,199E-01	780	9,604E-01	1080	9,355E-01	2100	9,484E-01	3600	1,378E-01	5100	< 1,000E-05
490	9,464E-01	790	9,585E-01	1090	9,354E-01	2150	9,434E-01	3650	1,333E-01	5150	< 1,000E-05