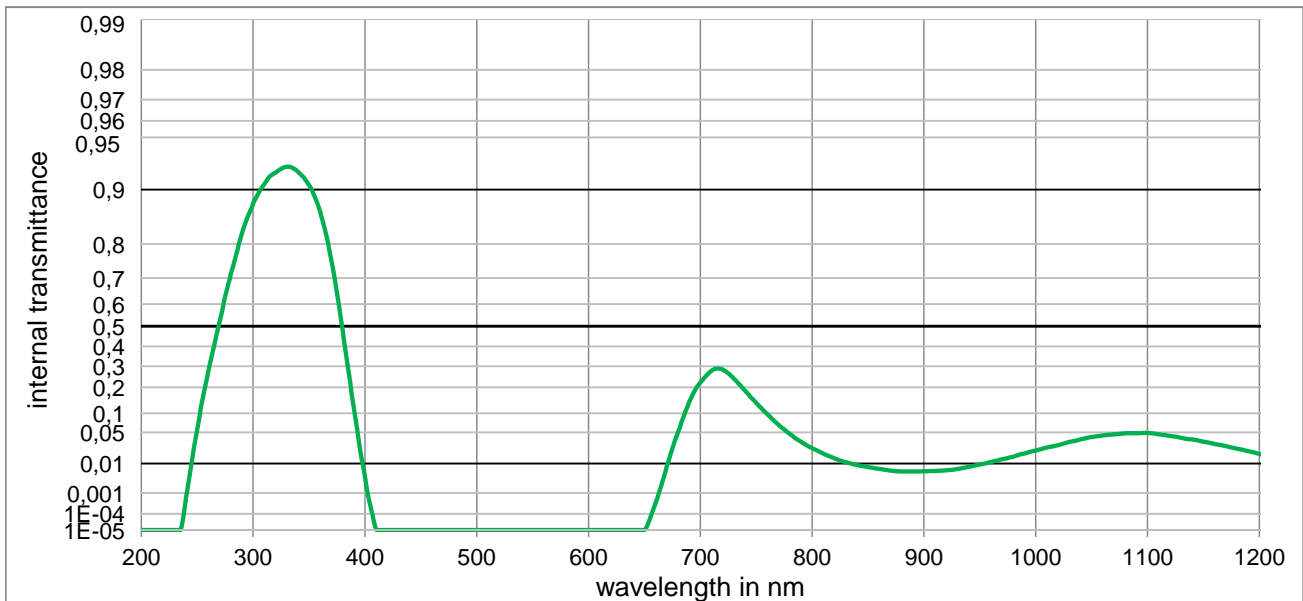
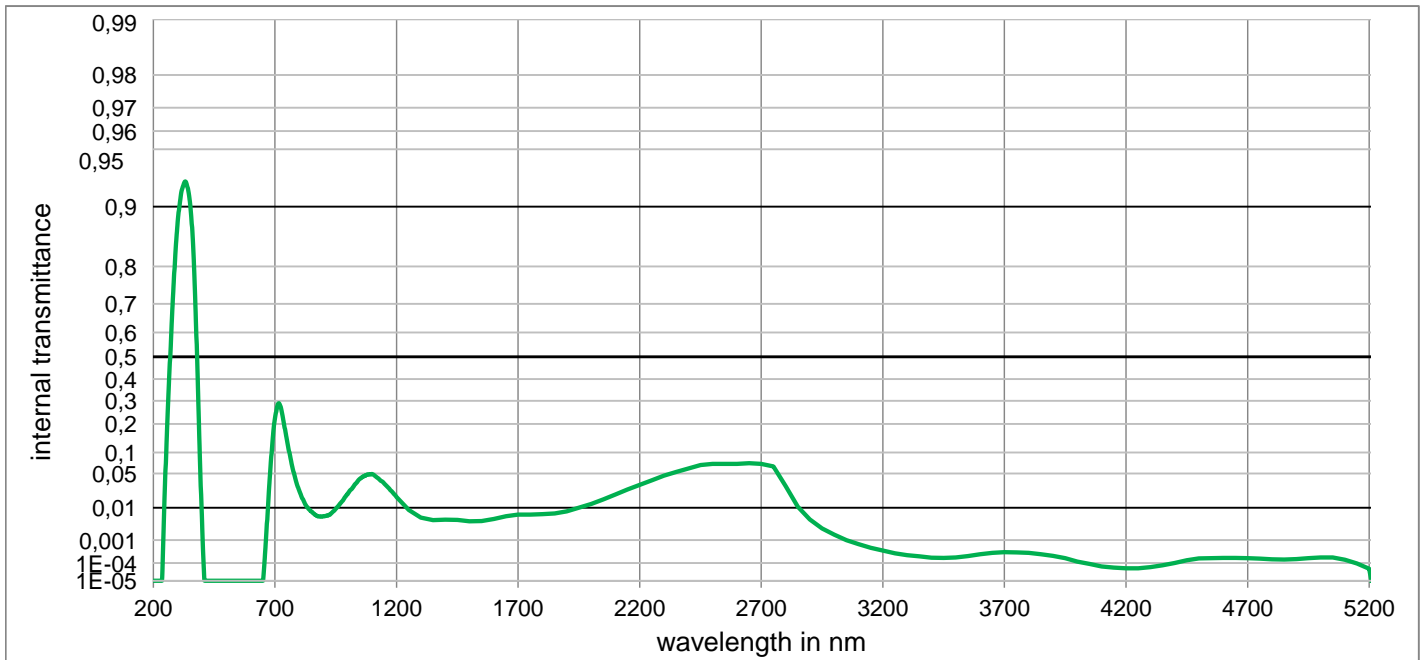


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Optical properties	Mechanical properties	Colormetric properties
Reflection factor	Reference thickness	1 mm 2 mm 3 mm
$P_d = 0,908$	$d = 1,00 \text{ mm}$	illuminant D65
Spectral values guaranteed	Density	x
$\tau_i (254 \text{ nm}) \geq 0,06$	$\rho = 2,92 \text{ g/cm}^3$	y
$\tau_i (334 \text{ nm}) \geq 0,9$	Knoop hardness	Y
$\tau_i (405 \text{ nm}) \leq 0,001$	HK[0.1/20] = 440	λ_d
$\tau_i (694 \text{ nm}) \leq 0,26$		P_e
$\tau_i (725 \text{ nm}) \leq 0,32$		illuminant A
	Thermal properties	x
	Transformation temperature	y
	$T_g = 545 \text{ }^\circ\text{C}$	Y
	Thermal expansion in $10^{-6}/\text{K}$	λ_d
	$\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 7,8$	P_e
	$\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 9,0$	
Refractive indices		Notes
$n_F (486 \text{ nm}) = 1,57$		UV
$n_e (546 \text{ nm}) = 1,57$		Transmission changes are possible under the action of intense ultraviolet radiation.
$n_d (587,6 \text{ nm}) = 1,56$		Ionically colored glass
	Chemical properties	Bandpass filter
Sellmeier coefficients	Chemical resistance	
valid from 270 nm to 600 nm	FR class = 0	
$B_1 = 1,3960$	SR class = 3	DIN 58131
$B_2 = 0,0097$	AR class = 2.2	
$B_3 = 0,5658$		
$C_1 = 9,230\text{E-}03 \text{ } \mu\text{m}^2$	Resistance against humidity	
$C_2 = 4,4000\text{E-}02 \text{ } \mu\text{m}^2$	Sensitive glass	Disclaimer
$C_3 = 96,000 \text{ } \mu\text{m}^2$	see pocket catalogue "Optical Filter Glass 2020", chapter 5.5	All data without tolerances are to be understood to be reference values.
Internal quality		
Bubble class 2		



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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	< 1,000E-05	800	2,400E-02	1100	4,897E-02	2200	3,160E-02	3700	3,206E-04
210	< 1,0E-05	510	< 1,000E-05	810	1,800E-02	1110	4,608E-02	2250	3,845E-02	3750	3,177E-04
220	< 1,0E-05	520	< 1,000E-05	820	1,382E-02	1120	4,300E-02	2300	4,600E-02	3800	3,000E-04
230	< 1,0E-05	530	< 1,000E-05	830	1,088E-02	1130	3,948E-02	2350	5,309E-02	3850	2,594E-04
240	6,1E-04	540	< 1,000E-05	840	9,121E-03	1140	3,666E-02	2400	6,000E-02	3900	2,213E-04
250	5,6E-02	550	< 1,000E-05	850	7,965E-03	1150	3,325E-02	2450	6,776E-02	3950	1,710E-04
260	2,8E-01	560	< 1,000E-05	860	7,014E-03	1160	2,970E-02	2500	7,000E-02	4000	1,180E-04
270	5,2E-01	570	< 1,000E-05	870	6,255E-03	1170	2,691E-02	2550	7,000E-02	4050	8,954E-05
280	7,1E-01	580	< 1,000E-05	880	5,892E-03	1180	2,354E-02	2600	7,000E-02	4100	6,653E-05
290	8,3E-01	590	< 1,000E-05	890	5,834E-03	1190	2,064E-02	2650	7,161E-02	4150	5,741E-05
300	8,8E-01	600	< 1,000E-05	900	5,948E-03	1200	1,775E-02	2700	7,000E-02	4200	5,236E-05
310	9,1E-01	610	< 1,000E-05	910	6,114E-03	1250	8,800E-03	2750	6,427E-02	4250	5,383E-05
320	9,200E-01	620	< 1,000E-05	920	6,368E-03	1300	5,470E-03	2800	3,000E-02	4300	6,067E-05
330	9,260E-01	630	< 1,000E-05	930	7,000E-03	1350	4,590E-03	2850	1,057E-02	4350	7,621E-05
340	9,210E-01	640	< 1,000E-05	940	8,090E-03	1400	4,770E-03	2900	4,819E-03	4400	1,000E-04
350	9,060E-01	650	< 1,000E-05	950	9,390E-03	1450	4,650E-03	2950	2,547E-03	4450	1,384E-04
360	8,660E-01	660	3,631E-04	960	1,100E-02	1500	4,270E-03	3000	1,589E-03	4500	1,663E-04
370	7,560E-01	670	8,128E-03	970	1,300E-02	1550	4,340E-03	3050	1,000E-03	4550	1,742E-04
380	4,820E-01	680	5,000E-02	980	1,520E-02	1600	5,000E-03	3100	6,966E-04	4600	1,766E-04
390	1,200E-01	690	1,380E-01	990	1,825E-02	1650	5,970E-03	3150	5,000E-04	4650	1,750E-04
400	3,999E-03	700	2,220E-01	1000	2,132E-02	1700	6,600E-03	3200	3,750E-04	4700	1,710E-04
410	1,047E-05	710	2,780E-01	1010	2,498E-02	1750	6,660E-03	3250	2,897E-04	4750	1,633E-04
420	< 1,000E-05	720	2,830E-01	1020	2,809E-02	1800	6,790E-03	3300	2,360E-04	4800	1,503E-04
430	< 1,000E-05	730	2,400E-01	1030	3,263E-02	1850	7,160E-03	3350	2,075E-04	4850	1,496E-04
440	< 1,000E-05	740	1,850E-01	1040	3,673E-02	1900	8,040E-03	3400	1,824E-04	4900	1,560E-04
450	< 1,000E-05	750	1,360E-01	1050	4,100E-02	1950	1,000E-02	3450	1,758E-04	4950	1,726E-04
460	< 1,000E-05	760	9,700E-02	1060	4,375E-02	2000	1,238E-02	3500	1,875E-04	5000	1,866E-04
470	< 1,000E-05	770	6,700E-02	1070	4,599E-02	2050	1,577E-02	3550	2,133E-04	5050	1,875E-04
480	< 1,000E-05	780	4,700E-02	1080	4,800E-02	2100	2,029E-02	3600	2,594E-04	5100	1,435E-04
490	< 1,000E-05	790	3,300E-02	1090	4,828E-02	2150	2,582E-02	3650	3,000E-04	5150	9,376E-05