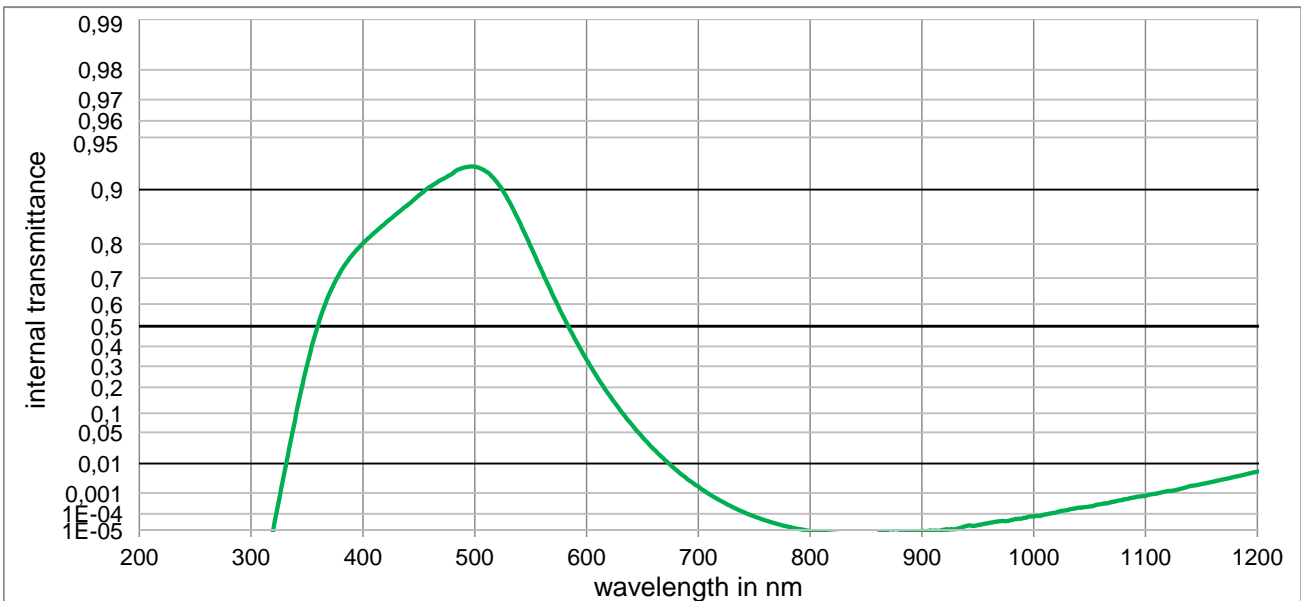
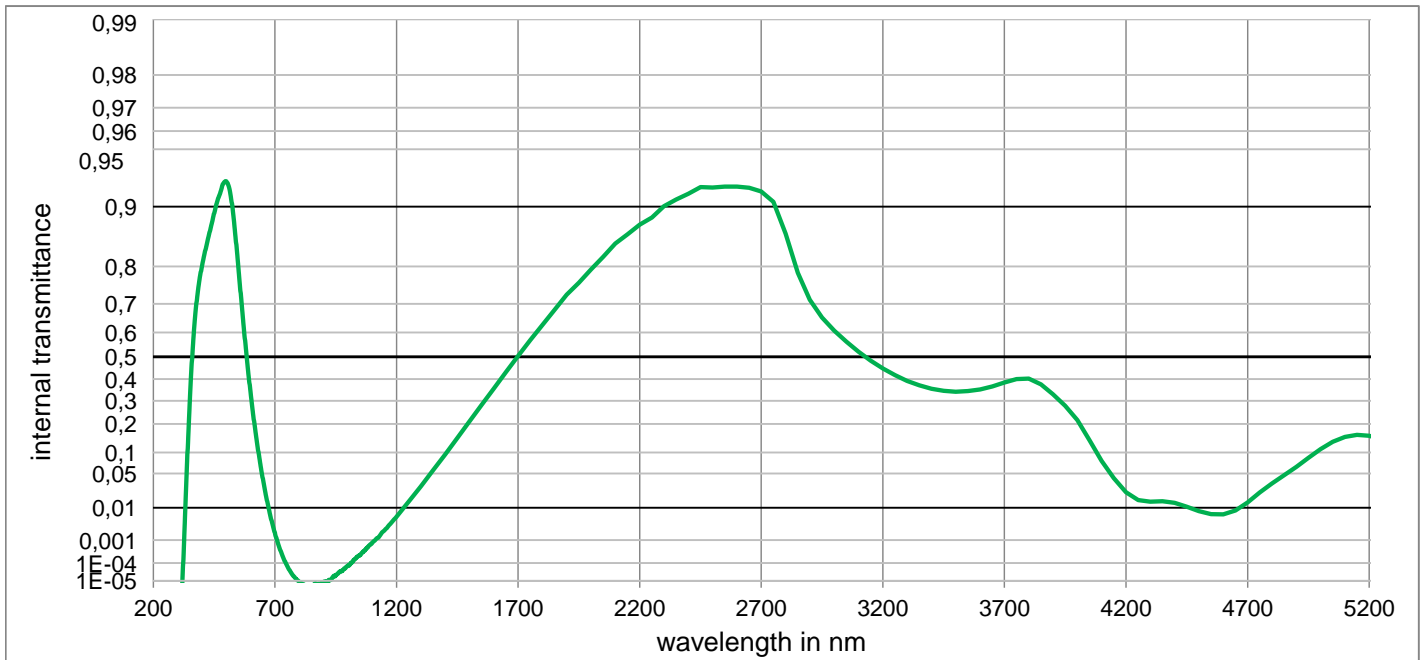


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Optical properties		Mechanical properties		Colormetric properties				
Reflection factor		Reference thickness		1 mm 2 mm 3 mm				
$P_d = 0,914$		$d = 1,00 \text{ mm}$		Illuminant D65	x	0,226	0,191	0,172
Spectral values guaranteed		Density			y	0,314	0,299	0,288
$\tau_i (405 \text{ nm}) \geq 0,8$		$\rho = 2,85 \text{ g/cm}^3$			Y	60,8	46,6	37,7
$\tau_i (514 \text{ nm}) \geq 0,9$		Knoop hardness			λ_d	489 nm	489 nm	488 nm
$\tau_i (633 \text{ nm}) \geq 0,08$		$HK[0.1/20] = 368$			P_e	0,326	0,468	0,546
$\tau_i (694 \text{ nm}) \leq 0,004$		Thermal properties		Illuminant A	x	0,317	0,252	0,215
$\tau_i (1060 \text{ nm}) \leq 0,0005$		Transformation temperature			y	0,438	0,438	0,430
		$T_g = 410 \text{ }^\circ\text{C}$			Y	52,0	36,9	28,4
		Thermal expansion in $10^{-6}/\text{K}$			λ_d	499 nm	497 nm	496 nm
		$\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 11,8$			P_e	0,299	0,452	0,542
		$\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 13,7$		Notes				
Refractive indices		Chemical properties		Ionically colored glass				
$n_F (486 \text{ nm}) = 1,55$		Chemical resistance		Bandpass filter / Shortpass filter				
$n_e (546 \text{ nm}) = 1,54$		FR class = 1		NIR cutoff filter				
$n_d (587,6 \text{ nm}) = 1,54$		SR class = 52.3		lambda_50%(d=0.21mm) = 644 nm				
		AR class = 3.3		DIN 58131				
Sellmeier coefficients		Resistance against humidity		Disclaimer				
valid from 340 nm to 1550 nm		Resistant glass		All data without tolerances are to be understood to be reference values.				
$B_1 = 1,2129$		see pocket catalogue "Optical Filter Glass 2020", chapter 5.5						
$B_2 = 0,1238$								
$B_3 = 0,0621$								
$C_1 = 6,667\text{E-}03 \text{ } \mu\text{m}^2$								
$C_2 = 3,0034\text{E-}02 \text{ } \mu\text{m}^2$								
$C_3 = 12,219 \text{ } \mu\text{m}^2$								
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	9,261E-01	800	< 1,000E-05	1100	7,708E-04	2200	8,764E-01	3700	3,841E-01
210	< 1,0E-05	510	9,214E-01	810	< 1,000E-05	1110	9,495E-04	2250	8,864E-01	3750	4,004E-01
220	< 1,0E-05	520	9,089E-01	820	< 1,000E-05	1120	1,194E-03	2300	9,006E-01	3800	4,015E-01
230	< 1,0E-05	530	8,856E-01	830	< 1,000E-05	1130	1,417E-03	2350	9,081E-01	3850	3,755E-01
240	< 1,0E-05	540	8,483E-01	840	< 1,000E-05	1140	1,889E-03	2400	9,143E-01	3900	3,297E-01
250	< 1,0E-05	550	7,945E-01	850	< 1,000E-05	1150	2,190E-03	2450	9,208E-01	3950	2,780E-01
260	< 1,0E-05	560	7,232E-01	860	< 1,000E-05	1160	2,656E-03	2500	9,204E-01	4000	2,153E-01
270	< 1,0E-05	570	6,361E-01	870	< 1,000E-05	1170	3,280E-03	2550	9,214E-01	4050	1,386E-01
280	< 1,0E-05	580	5,373E-01	880	< 1,000E-05	1180	3,977E-03	2600	9,213E-01	4100	7,754E-02
290	< 1,0E-05	590	4,338E-01	890	< 1,000E-05	1190	4,816E-03	2650	9,202E-01	4150	4,183E-02
300	< 1,0E-05	600	3,335E-01	900	< 1,000E-05	1200	5,792E-03	2700	9,166E-01	4200	2,268E-02
310	< 1,0E-05	610	2,433E-01	910	< 1,000E-05	1250	1,420E-02	2750	9,057E-01	4250	1,526E-02
320	1,339E-05	620	1,683E-01	920	1,017E-05	1300	2,938E-02	2800	8,625E-01	4300	1,405E-02
330	5,930E-03	630	1,110E-01	930	1,146E-05	1350	5,598E-02	2850	7,851E-01	4350	1,440E-02
340	9,512E-02	640	6,912E-02	940	1,861E-05	1400	9,470E-02	2900	7,123E-01	4400	1,317E-02
350	3,042E-01	650	4,089E-02	950	2,151E-05	1450	1,470E-01	2950	6,549E-01	4450	1,057E-02
360	5,087E-01	660	2,308E-02	960	2,868E-05	1500	2,097E-01	3000	6,073E-01	4500	8,216E-03
370	6,420E-01	670	1,259E-02	970	3,657E-05	1550	2,813E-01	3050	5,638E-01	4550	6,843E-03
380	7,214E-01	680	6,615E-03	980	4,364E-05	1600	3,563E-01	3100	5,224E-01	4600	6,690E-03
390	7,694E-01	690	3,406E-03	990	5,597E-05	1650	4,329E-01	3150	4,834E-01	4650	8,518E-03
400	8,016E-01	700	1,849E-03	1000	7,191E-05	1700	5,036E-01	3200	4,482E-01	4700	1,353E-02
410	8,257E-01	710	8,801E-04	1010	9,398E-05	1750	5,702E-01	3250	4,175E-01	4750	2,221E-02
420	8,456E-01	720	4,531E-04	1020	1,185E-04	1800	6,281E-01	3300	3,919E-01	4800	3,359E-02
430	8,627E-01	730	2,360E-04	1030	1,571E-04	1850	6,812E-01	3350	3,714E-01	4850	4,702E-02
440	8,779E-01	740	1,276E-04	1040	2,103E-04	1900	7,279E-01	3400	3,556E-01	4900	6,337E-02
450	8,919E-01	750	7,146E-05	1050	2,391E-04	1950	7,606E-01	3450	3,461E-01	4950	8,489E-02
460	9,036E-01	760	4,179E-05	1060	3,161E-04	2000	7,936E-01	3500	3,419E-01	5000	1,098E-01
470	9,121E-01	770	2,577E-05	1070	4,016E-04	2050	8,208E-01	3550	3,445E-01	5050	1,335E-01
480	9,190E-01	780	1,695E-05	1080	5,109E-04	2100	8,458E-01	3600	3,524E-01	5100	1,508E-01
490	9,251E-01	790	1,170E-05	1090	6,481E-04	2150	8,616E-01	3650	3,662E-01	5150	1,578E-01