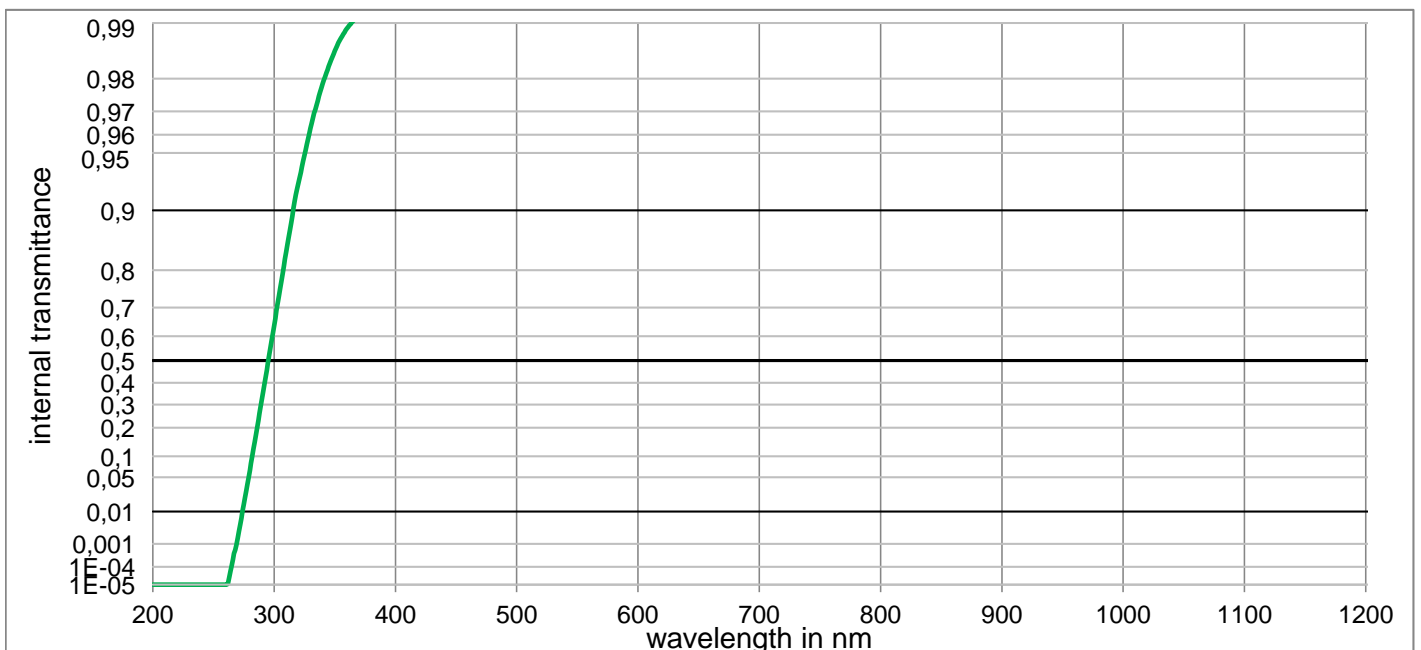
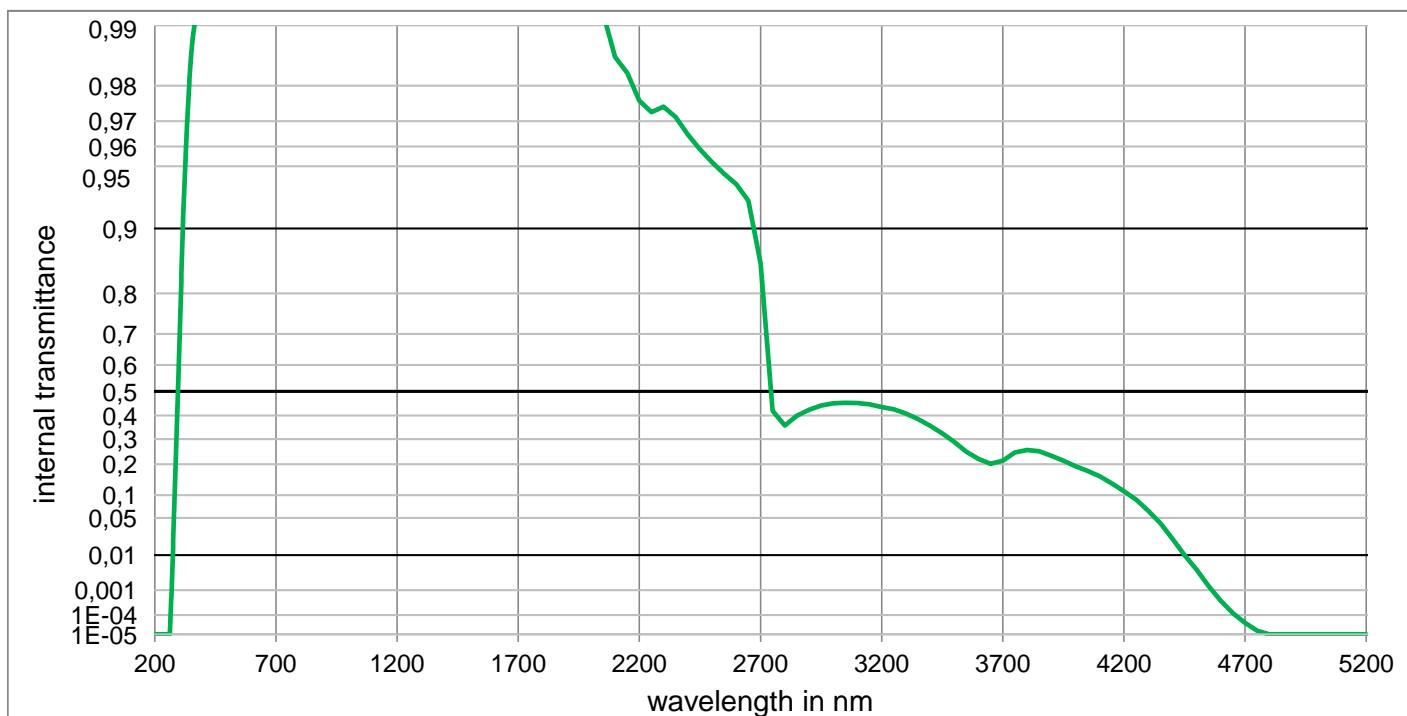


N-WG295

Optical properties	Mechanical properties	Colormetric properties	
Reflection factor	Reference thickness	1 mm 2 mm 3 mm	
$P_d = 0,919$	$d = 2,00 \text{ mm}$	Illuminant D65 x y Y λ_d P_e	
Spectral values guaranteed (d = 2 mm)	Density		Illuminant A x y Y λ_d P_e
$\lambda_c (\tau_i = 0,5) = 295 \text{ nm} \pm 6 \text{ nm}$	$\rho = 2,51 \text{ g/cm}^3$		
$\lambda_s (\tau_{i,U} = 1E-05) = 250 \text{ nm}$	Knoop hardness		
$\lambda_p (\tau_{i,L} = 0,99) = 400 \text{ nm}$	$HK_{[0.1/20]} = 610$		
	Thermal properties		
	Transformation temperature		
	$T_g = 565 \text{ }^\circ\text{C}$		
	Thermal expansion in $10^{-6}/\text{K}$		
	$\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 7,2$		
	$\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 8,4$		
	Temperature coefficient		
	$Tk = 0,06 \text{ nm/K}$		
Refractive indices	Chemical properties	Notes	
$n_d (587,6 \text{ nm}) = 1,52$	Chemical resistance	Base glass Longpass filter DIN 58131	
$n_s (852 \text{ nm}) = 1,51$	FR class = 0		
$n_t (1014 \text{ nm}) = 1,51$	SR class = 1		
	AR class = 2		
Sellmeier coefficients	Resistance against humidity	Disclaimer	
valid from 440 nm to 1550 nm	Resistant glass	All data without tolerances are to be understood to be reference values.	
$B_1 = 0,7679$	see pocket catalogue "Optical Filter Glass 2020", chapter 5.5		
$B_2 = 0,5097$			
$B_3 = 1,4617$			
$C_2 = 1,9688E-02 \text{ } \mu\text{m}^2$			
$C_3 = 100,000 \text{ } \mu\text{m}^2$			
Internal quality			
Bubble class 1			



N-WG295



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	9,966E-01	800	9,999E-01	1100	9,999E-01	2200	9,762E-01	3700	2,127E-01
210	< 1,0E-05	510	9,968E-01	810	9,999E-01	1110	9,999E-01	2250	9,730E-01	3750	2,453E-01
220	< 1,0E-05	520	9,971E-01	820	9,999E-01	1120	9,999E-01	2300	9,746E-01	3800	2,557E-01
230	< 1,0E-05	530	9,973E-01	830	9,999E-01	1130	9,999E-01	2350	9,713E-01	3850	2,500E-01
240	< 1,0E-05	540	9,975E-01	840	9,999E-01	1140	9,999E-01	2400	9,651E-01	3900	2,320E-01
250	< 1,0E-05	550	9,977E-01	850	9,999E-01	1150	9,999E-01	2450	9,587E-01	3950	2,127E-01
260	< 1,0E-05	560	9,978E-01	860	9,999E-01	1160	9,999E-01	2500	9,521E-01	4000	1,921E-01
270	1,6E-03	570	9,980E-01	870	9,999E-01	1170	9,999E-01	2550	9,455E-01	4050	1,753E-01
280	6,4E-02	580	9,981E-01	880	9,999E-01	1180	9,999E-01	2600	9,387E-01	4100	1,574E-01
290	3,3E-01	590	9,982E-01	890	9,999E-01	1190	9,999E-01	2650	9,264E-01	4150	1,342E-01
300	6,4E-01	600	9,984E-01	900	9,999E-01	1200	9,999E-01	2700	8,540E-01	4200	1,111E-01
310	8,4E-01	610	9,985E-01	910	9,999E-01	1250	9,999E-01	2750	4,197E-01	4250	8,840E-02
320	9,279E-01	620	9,986E-01	920	9,999E-01	1300	9,999E-01	2800	3,578E-01	4300	6,370E-02
330	9,630E-01	630	9,987E-01	930	9,999E-01	1350	9,999E-01	2850	3,992E-01	4350	4,140E-02
340	9,787E-01	640	9,988E-01	940	9,999E-01	1400	9,985E-01	2900	4,244E-01	4400	2,230E-02
350	9,859E-01	650	9,989E-01	950	9,999E-01	1450	9,999E-01	2950	4,419E-01	4450	1,000E-02
360	9,893E-01	660	9,991E-01	960	9,999E-01	1500	9,999E-01	3000	4,509E-01	4500	4,310E-03
370	9,909E-01	670	9,992E-01	970	9,999E-01	1550	9,999E-01	3050	4,537E-01	4550	1,352E-03
380	9,919E-01	680	9,993E-01	980	9,999E-01	1600	9,999E-01	3100	4,518E-01	4600	4,070E-04
390	9,928E-01	690	9,994E-01	990	9,999E-01	1650	9,999E-01	3150	4,466E-01	4650	1,191E-04
400	9,934E-01	700	9,995E-01	1000	9,999E-01	1700	9,999E-01	3200	4,357E-01	4700	4,227E-05
410	9,939E-01	710	9,996E-01	1010	9,999E-01	1750	9,997E-01	3250	4,258E-01	4750	1,585E-05
420	9,942E-01	720	9,997E-01	1020	9,999E-01	1800	9,988E-01	3300	4,088E-01	4800	< 1,000E-05
430	9,946E-01	730	9,997E-01	1030	9,999E-01	1850	9,978E-01	3350	3,852E-01	4850	< 1,000E-05
440	9,949E-01	740	9,998E-01	1040	9,999E-01	1900	9,965E-01	3400	3,568E-01	4900	< 1,000E-05
450	9,951E-01	750	9,998E-01	1050	9,999E-01	1950	9,949E-01	3450	3,242E-01	4950	< 1,000E-05
460	9,955E-01	760	9,999E-01	1060	9,999E-01	2000	9,932E-01	3500	2,878E-01	5000	< 1,000E-05
470	9,957E-01	770	9,999E-01	1070	9,999E-01	2050	9,913E-01	3550	2,486E-01	5050	< 1,000E-05
480	9,960E-01	780	9,999E-01	1080	9,999E-01	2100	9,856E-01	3600	2,200E-01	5100	< 1,000E-05
490	9,963E-01	790	9,999E-01	1090	9,999E-01	2150	9,827E-01	3650	2,018E-01	5150	< 1,000E-05