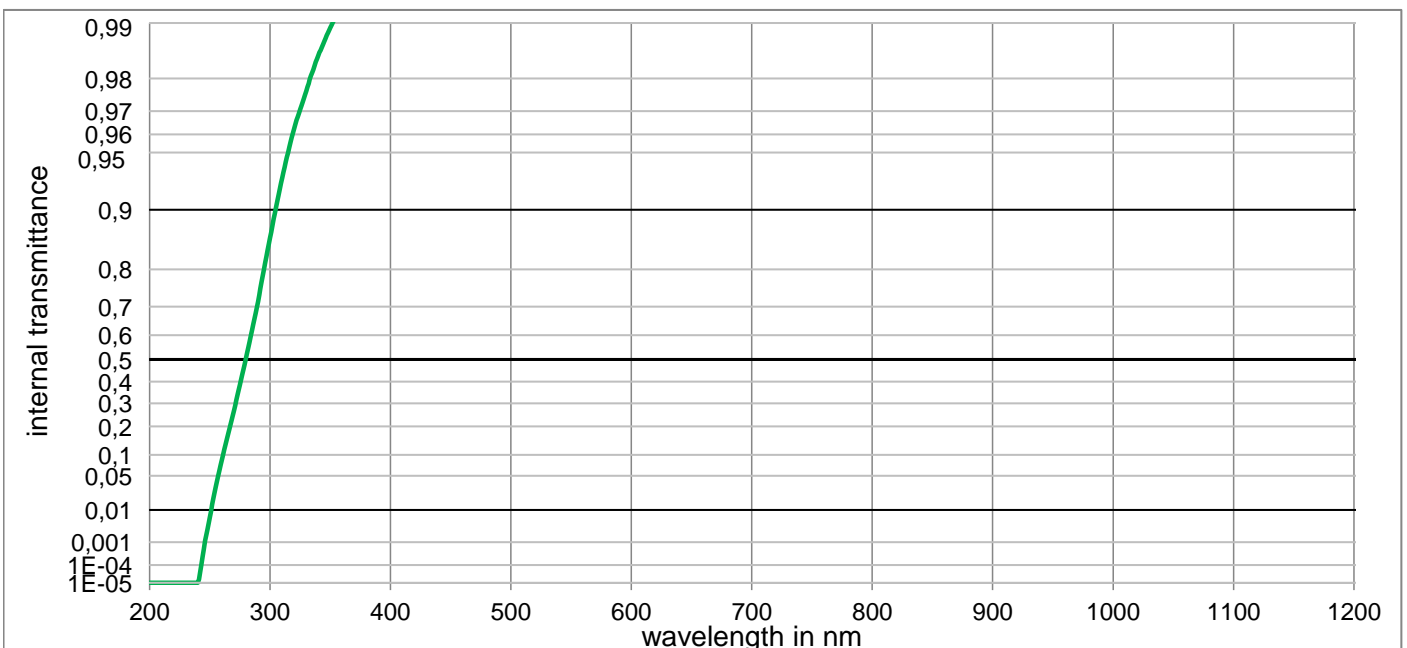
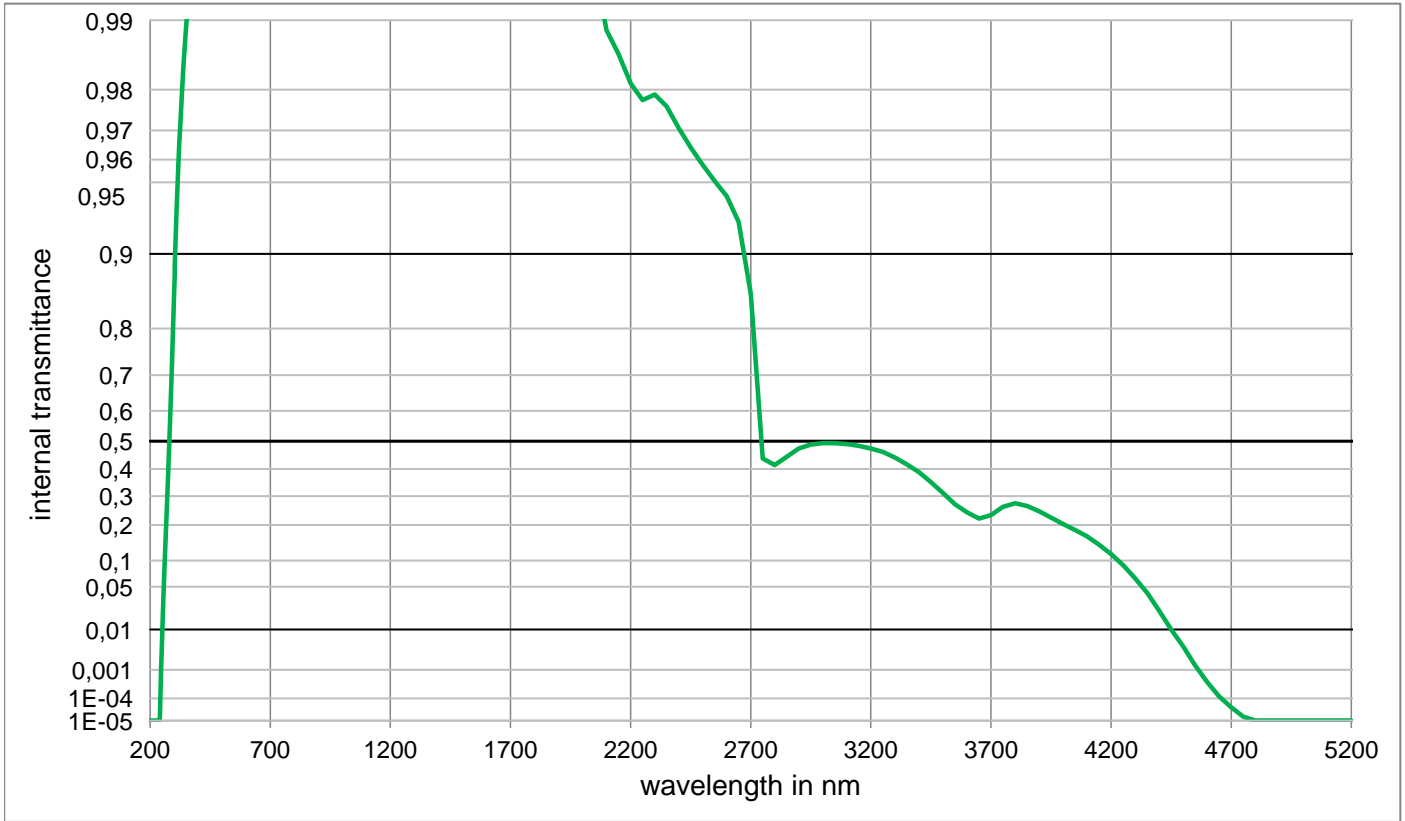


N-WG280

Optical properties	Mechanical properties	Colorimetric 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	
$\lambda_{i0,5} = 280 \text{ nm} \pm 6 \text{ nm}$	$\rho = 2,51 \text{ g/cm}^3$	
$\lambda_s (\tau_{i,U} = 1E-05) = 230 \text{ nm}$	Knoop hardness	
$\lambda_p (\tau_{i,L} = 0,99) = 380 \text{ nm}$	$HK_{[0,1/20]} = 610$	
		Illuminant A x y Y λ_d P_e
	Thermal properties	
	Transformation temperature	
	$T_g = 558 \text{ }^\circ\text{C}$	
	Thermal expansion in $10^{-6}/\text{K}$	
Refractive indices	$\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 7,1$	Notes Base glass Longpass filter ISO 23364:2021 Disclaimer All data without tolerances are to be understood to be reference values.
$n_d (587,6 \text{ nm}) = 1,52$	$\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 8,4$	
$n_s (852 \text{ nm}) = 1,51$		
$n_t (1014 \text{ nm}) = 1,51$	Temperature coefficient	
	$Tk = 0,06 \text{ nm/K}$	
Sellmeier coefficients	Chemical properties	
valid from 440 nm to 1550 nm	Chemical resistance	
$B_1 = 0,0123$	FR class = 0	
$B_2 = 0,5089$	SR class = 1	
$B_3 = 1,8825$	AR class = 2	
$C_1 = 1,388E-02 \text{ } \mu\text{m}^2$	Resistance against humidity	
$C_2 = 1,8223E-05 \text{ } \mu\text{m}^2$	Resistant glass	
$C_3 = 202,101 \text{ } \mu\text{m}^2$	see pocket catalogue "Optical Filter Glass 2024", chapter 5.5	
Internal quality		
Bubble class 1		



N-WG280



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	9,974E-01	800	9,999E-01	1100	9,999E-01	2200	9,812E-01	3700	2,325E-01
210	< 1,0E-05	510	9,976E-01	810	9,999E-01	1110	9,999E-01	2250	9,778E-01	3750	2,613E-01
220	< 1,0E-05	520	9,978E-01	820	9,999E-01	1120	9,999E-01	2300	9,790E-01	3800	2,746E-01
230	< 1,0E-05	530	9,980E-01	830	9,999E-01	1130	9,999E-01	2350	9,764E-01	3850	2,651E-01
240	< 1,0E-05	540	9,982E-01	840	9,999E-01	1140	9,999E-01	2400	9,708E-01	3900	2,462E-01
250	6,6E-03	550	9,983E-01	850	9,999E-01	1150	9,999E-01	2450	9,645E-01	3950	2,245E-01
260	8,6E-02	560	9,985E-01	860	9,999E-01	1160	9,999E-01	2500	9,579E-01	4000	2,037E-01
270	2,7E-01	570	9,986E-01	870	9,999E-01	1170	9,999E-01	2550	9,507E-01	4050	1,843E-01
280	5,1E-01	580	9,988E-01	880	9,999E-01	1180	9,999E-01	2600	9,427E-01	4100	1,645E-01
290	7,2E-01	590	9,989E-01	890	9,999E-01	1190	9,999E-01	2650	9,264E-01	4150	1,408E-01
300	8,6E-01	600	9,991E-01	900	9,999E-01	1200	9,999E-01	2700	8,540E-01	4200	1,155E-01
310	9,3E-01	610	9,992E-01	910	9,999E-01	1250	9,999E-01	2750	4,381E-01	4250	8,980E-02
320	9,626E-01	620	9,993E-01	920	9,999E-01	1300	9,999E-01	2800	4,145E-01	4300	6,370E-02
330	9,766E-01	630	9,995E-01	930	9,999E-01	1350	9,999E-01	2850	4,442E-01	4350	4,140E-02
340	9,849E-01	640	9,996E-01	940	9,999E-01	1400	9,993E-01	2900	4,740E-01	4400	2,230E-02
350	9,894E-01	650	9,997E-01	950	9,999E-01	1450	9,999E-01	2950	4,882E-01	4450	1,000E-02
360	9,916E-01	660	9,998E-01	960	9,999E-01	1500	9,999E-01	3000	4,934E-01	4500	4,310E-03
370	9,928E-01	670	9,998E-01	970	9,999E-01	1550	9,999E-01	3050	4,934E-01	4550	1,352E-03
380	9,936E-01	680	9,999E-01	980	9,999E-01	1600	9,999E-01	3100	4,900E-01	4600	4,070E-04
390	9,942E-01	690	9,999E-01	990	9,999E-01	1650	9,999E-01	3150	4,835E-01	4650	1,191E-04
400	9,946E-01	700	9,999E-01	1000	9,999E-01	1700	9,999E-01	3200	4,740E-01	4700	4,227E-05
410	9,950E-01	710	9,999E-01	1010	9,999E-01	1750	9,999E-01	3250	4,622E-01	4750	1,585E-05
420	9,954E-01	720	9,999E-01	1020	9,999E-01	1800	9,999E-01	3300	4,423E-01	4800	< 1,000E-05
430	9,957E-01	730	9,999E-01	1030	9,999E-01	1850	9,995E-01	3350	4,173E-01	4850	< 1,000E-05
440	9,960E-01	740	9,999E-01	1040	9,999E-01	1900	9,984E-01	3400	3,885E-01	4900	< 1,000E-05
450	9,962E-01	750	9,999E-01	1050	9,999E-01	1950	9,974E-01	3450	3,516E-01	4950	< 1,000E-05
460	9,965E-01	760	9,999E-01	1060	9,999E-01	2000	9,961E-01	3500	3,114E-01	5000	< 1,000E-05
470	9,967E-01	770	9,999E-01	1070	9,999E-01	2050	9,941E-01	3550	2,708E-01	5050	< 1,000E-05
480	9,970E-01	780	9,999E-01	1080	9,999E-01	2100	9,889E-01	3600	2,429E-01	5100	< 1,000E-05
490	9,972E-01	790	9,999E-01	1090	9,999E-01	2150	9,860E-01	3650	2,207E-01	5150	< 1,000E-05