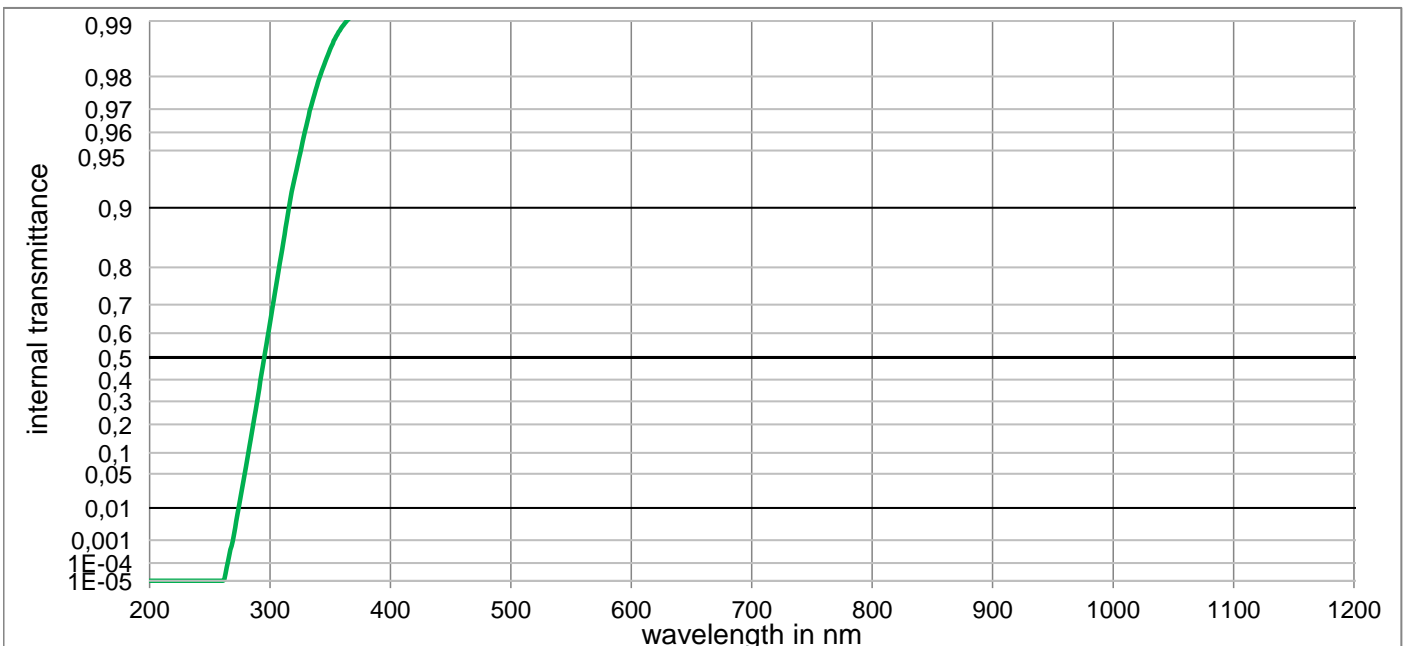
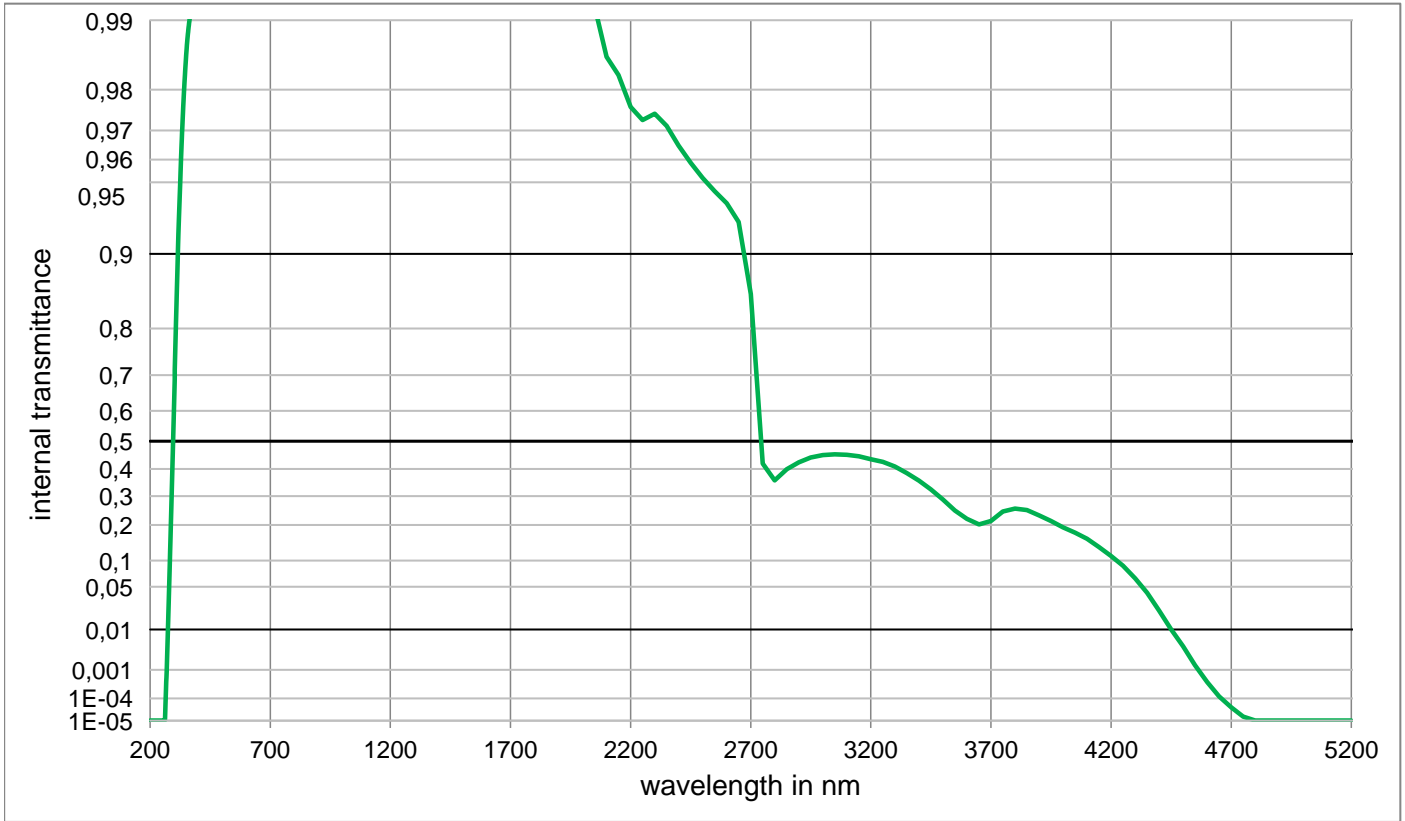


N-WG295

| 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 | |
| $\lambda_{i0,5} = 295 \text{ nm} \pm 6 \text{ nm}$ | $\rho = 2,51 \text{ g/cm}^3$ | |
| $\lambda_s (\tau_{i,U} = 1E-05) = 250 \text{ nm}$ | Knoop hardness | |
| $\lambda_p (\tau_{i,L} = 0,99) = 400 \text{ nm}$ | $HK_{[0,1/20]} = 610$ | |
| | | Illuminant A x y Y λ_d P_e |
| | Thermal properties | |
| | Transformation temperature | |
| | $T_g = 565 \text{ }^\circ\text{C}$ | |
| | Thermal expansion in $10^{-6}/\text{K}$ | |
| | $\alpha_{(-30^\circ\text{C}/+70^\circ\text{C})} = 7,2$ | Notes Base glass Longpass filter ISO 23364:2021 Disclaimer All data without tolerances are to be understood to be reference values. |
| | $\alpha_{(20^\circ\text{C}/300^\circ\text{C})} = 8,4$ | |
| Refractive indices | Temperature coefficient | |
| $n_d (587,6 \text{ nm}) = 1,52$ | $Tk = 0,06 \text{ nm/K}$ | |
| $n_s (852 \text{ nm}) = 1,51$ | | |
| $n_t (1014 \text{ nm}) = 1,51$ | | |
| | Chemical properties | |
| Sellmeier coefficients | Chemical resistance | |
| valid from 440 nm to 1550 nm | FR class = 0 | |
| $B_1 = #####$ | SR class = 1 | |
| $B_2 = 0,5097$ | AR class = 2 | |
| $B_3 = 1,4617$ | Resistance against humidity | |
| $C_2 = 1,9688E-02 \text{ } \mu\text{m}^2$ | Resistant glass | |
| $C_3 = 100,000 \text{ } \mu\text{m}^2$ | see pocket catalogue "Optical Filter Glass 2024", chapter 5.5 | |
| 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 |