Data Sheet

N-WG295

Optical properties	
Reflection factor	
P_d	= 0,918
Spectral values guaranteed (d = 2 mm)	
λ_c (τ_i = 0,5)	= 295 nm ± 6 nm
λ_s ($\tau_{i,U}$ = 1E-05)	= 250 nm
λ_p ($\tau_{i,L}$ = 0,99)	= 400 nm
Refractive indices	
n_d (587,6 nm)	= 1,52
n_t (1014 nm)	= 1,51
Sellmeier coefficients	
on request	
Internal quality	
Bubble class	1

Mechanical properties	
Reference thickness	
d	= 2,00 mm
Density	
ρ	= 2,51 g/cm³
Knoop hardness	
$HK_{[0.1/20]}$	= 610

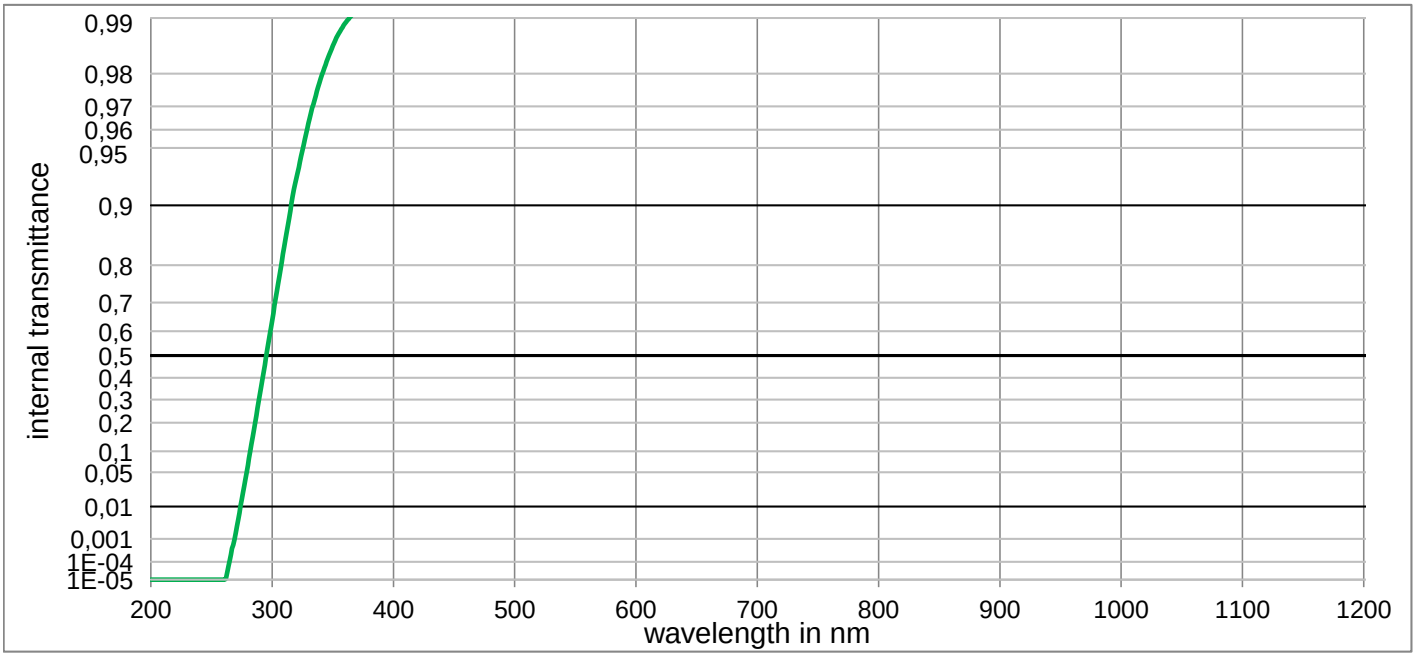
Thermal properties		
Transformation temperature		
Tg	= 565 °C	
Thermal expansion in		**10^{-6}/K**
$\alpha_{(-30°C/+70°C)}$	= 7,2	
$\alpha_{(20°C/300°C)}$	= 8,4	
Temperature coefficient		
Tk	= 0,06	nm/K

Chemical properties	
Chemical resistance	
FR class	= 0
SR class	= 1
AR class	= 2
Resistance against humidity	
Resistant glass	
see pocket catalogue "Optical Filter Glass 2020", chapter 5.5	

Colormetric properties		1 mm	2 mm	3 mm
Illuminant D65	x			
	y			
	Y			
	λ_d			
	P_e			
Illuminant A	x			
	y			
	Y			
	λ_d			
	P_e			

Notes
Base glass
Longpass filter
DIN 58131

Disclaimer
All data without tolerances are to be understood to be reference values.



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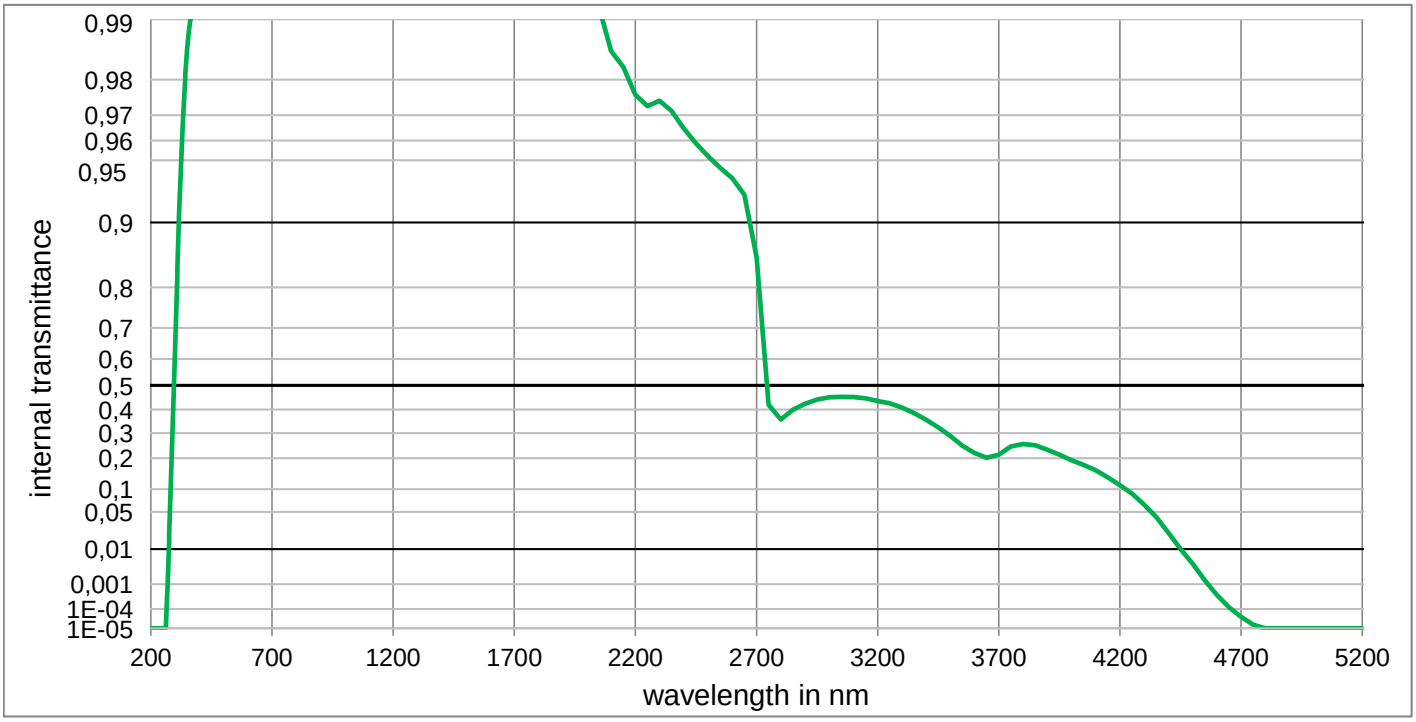

Internal transmittance ti at reference thickness
The internal transmittance values, tabulated and graphically represented, are reference values only

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