

NG11

Optical properties	
Reflection factor	
P _d = 0,923	
Spectral values guaranteed	
τ _i (405 nm)	= 0,76 ± 0,02
τ _i (546 nm)	= 0,77 ± 0,02
τ _i (694 nm)	= 0,79 ± 0,02
Refractive indices	
n _F (486 nm)	= 1,504
n _e (546 nm)	= 1,5
n _d (587,6 nm)	= 1,499
Sellmeier coefficients	
valid from 365 nm to 1530 nm	
B ₁	1,1839
B ₂	0,0336
B ₃	1,1111
C ₁	7,634E-03 μm ²
C ₂	4,3272E-02 μm ²
C ₃	116,448 μm ²
Internal quality	
Bubble class	2

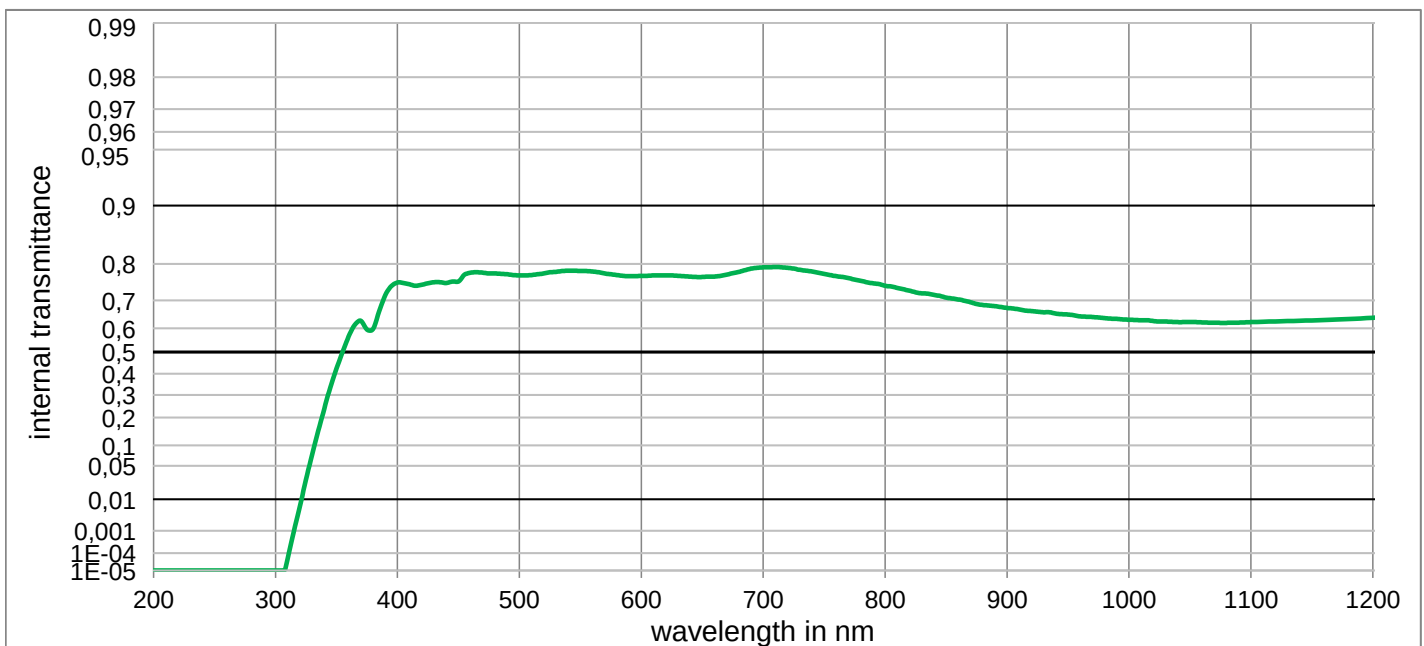
Mechanical properties	
Reference thickness	
d = 1,00 mm	
Density	
ρ = 2,41 g/cm ³	
Knoop hardness	
HK[0.1/20] = 460	

Thermal properties	
Transformation temperature	
T _g = 481 °C	
Thermal expansion in 10 ⁻⁶ /K	
α (-30°C/+70°C) = 6,7	
α (20°C/300°C) = 7,2	
α (20°C/200°C) = 7	

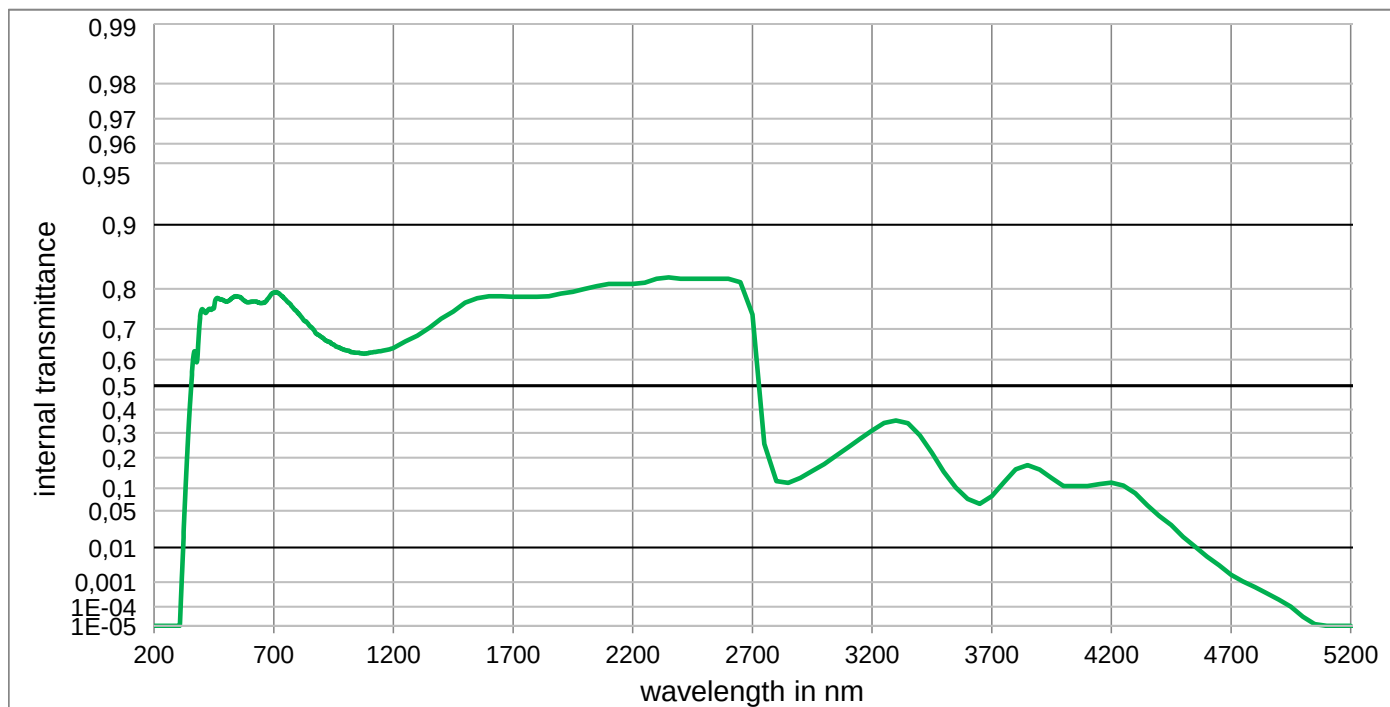
Chemical properties	
Chemical resistance	
FR class = 1	
SR class = 3.4	
AR class = 2	
Resistance against humidity	
Resistant glass	
see pocket catalogue "Optical Filter Glass 2020", chapter 5.5	

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



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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	7,720E-01	800	7,440E-01	1100	6,240E-01	2200	8,100E-01	3700	8,000E-02
210	< 1,0E-05	510	7,730E-01	810	7,380E-01	1110	6,254E-01	2250	8,124E-01	3750	1,159E-01
220	< 1,0E-05	520	7,770E-01	820	7,300E-01	1120	6,266E-01	2300	8,200E-01	3800	1,583E-01
230	< 1,0E-05	530	7,810E-01	830	7,220E-01	1130	6,278E-01	2350	8,227E-01	3850	1,725E-01
240	< 1,0E-05	540	7,840E-01	840	7,170E-01	1140	6,290E-01	2400	8,200E-01	3900	1,574E-01
250	< 1,0E-05	550	7,830E-01	850	7,090E-01	1150	6,304E-01	2450	8,200E-01	3950	1,300E-01
260	< 1,0E-05	560	7,820E-01	860	7,030E-01	1160	6,318E-01	2500	8,200E-01	4000	1,060E-01
270	< 1,0E-05	570	7,770E-01	870	6,940E-01	1170	6,335E-01	2550	8,200E-01	4050	1,060E-01
280	< 1,0E-05	580	7,730E-01	880	6,850E-01	1180	6,353E-01	2600	8,200E-01	4100	1,058E-01
290	< 1,0E-05	590	7,700E-01	890	6,810E-01	1190	6,375E-01	2650	8,133E-01	4150	1,117E-01
300	< 1,0E-05	600	7,710E-01	900	6,750E-01	1200	6,400E-01	2700	7,400E-01	4200	1,162E-01
310	5,1E-05	610	7,720E-01	910	6,700E-01	1250	6,616E-01	2750	2,545E-01	4250	1,072E-01
320	6,622E-03	620	7,720E-01	920	6,640E-01	1300	6,800E-01	2800	1,200E-01	4300	8,710E-02
330	7,396E-02	630	7,710E-01	930	6,600E-01	1350	7,030E-01	2850	1,150E-01	4350	6,012E-02
340	2,387E-01	640	7,690E-01	940	6,550E-01	1400	7,285E-01	2900	1,300E-01	4400	4,169E-02
350	4,241E-01	650	7,680E-01	950	6,520E-01	1450	7,473E-01	2950	1,527E-01	4450	2,904E-02
360	5,667E-01	660	7,690E-01	960	6,450E-01	1500	7,690E-01	3000	1,762E-01	4500	1,720E-02
370	6,290E-01	670	7,740E-01	970	6,430E-01	1550	7,794E-01	3050	2,073E-01	4550	1,038E-02
380	5,968E-01	680	7,810E-01	980	6,390E-01	1600	7,841E-01	3100	2,400E-01	4600	6,000E-03
390	7,166E-01	690	7,890E-01	990	6,360E-01	1650	7,841E-01	3150	2,752E-01	4650	3,459E-03
400	7,530E-01	700	7,920E-01	1000	6,330E-01	1700	7,831E-01	3200	3,091E-01	4700	1,778E-03
410	7,480E-01	710	7,930E-01	1010	6,310E-01	1750	7,831E-01	3250	3,421E-01	4750	1,052E-03
420	7,470E-01	720	7,910E-01	1020	6,280E-01	1800	7,831E-01	3300	3,525E-01	4800	6,607E-04
430	7,540E-01	730	7,860E-01	1030	6,260E-01	1850	7,841E-01	3350	3,412E-01	4850	3,846E-04
440	7,520E-01	740	7,820E-01	1040	6,240E-01	1900	7,900E-01	3400	2,900E-01	4900	2,089E-04
450	7,559E-01	750	7,760E-01	1050	6,240E-01	1950	7,935E-01	3450	2,186E-01	4950	1,007E-04
460	7,790E-01	760	7,700E-01	1060	6,230E-01	2000	8,000E-01	3500	1,500E-01	5000	3,236E-05
470	7,790E-01	770	7,650E-01	1070	6,220E-01	2050	8,058E-01	3550	1,018E-01	5050	1,271E-05
480	7,770E-01	780	7,580E-01	1080	6,210E-01	2100	8,100E-01	3600	7,350E-02	5100	< 1,000E-05
490	7,750E-01	790	7,510E-01	1090	6,220E-01	2150	8,100E-01	3650	6,310E-02	5150	< 1,000E-05