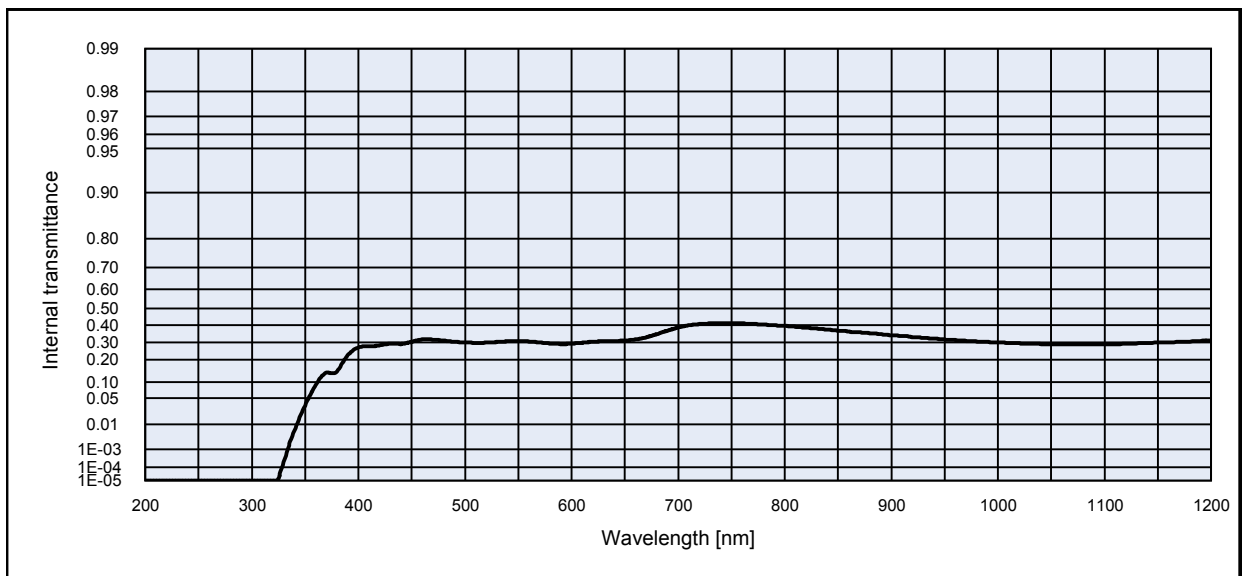
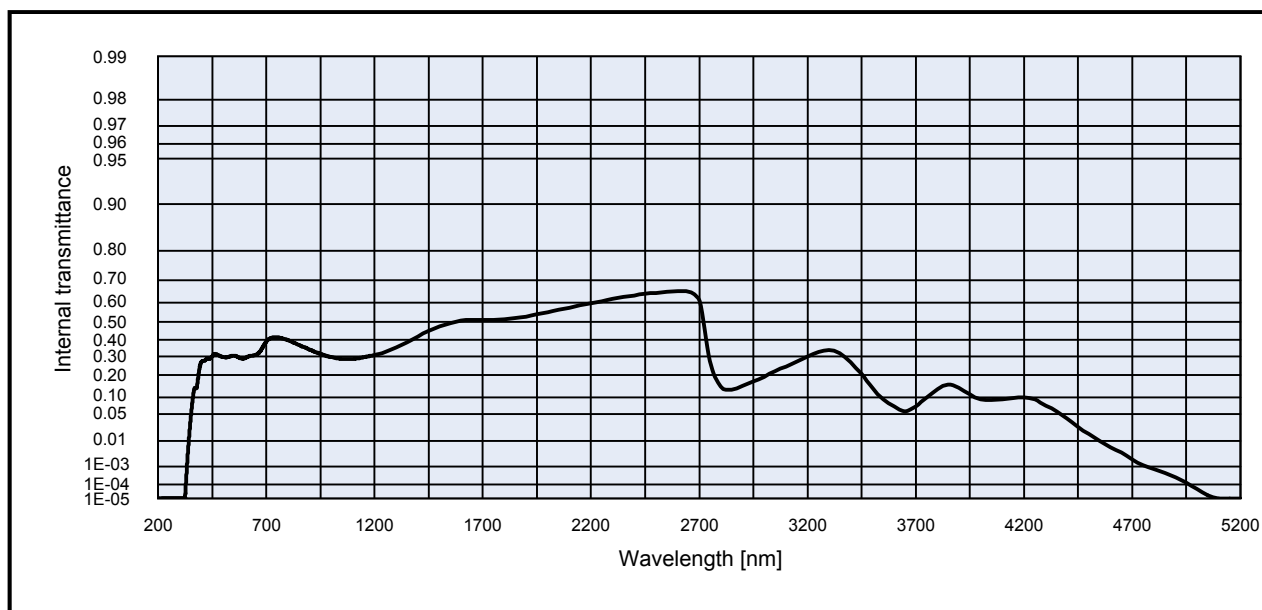


NG4		Density		Notes	
		ρ [g/cm ³]	2.43	Ionically colored glass	
Reflection factor		Bubble content		Neutral density filter	
P_d	0.92	Bubble class	2		
Reference thickness		Chemical resistance			
d [mm]	1	FR class	1		
Spectral values guaranteed		SR class	2.2		
τ_i (405 nm)	= 0.27 ± 0.03	AR class	1.0		
τ_i (546 nm)	= 0.31 ± 0.03	Transformation temperature			
τ_i (694 nm)	= 0.39 ± 0.04	T_g [°C]		483	
		Thermal expansion			
		$\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	6.7		
		$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	7.2		
		$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]			
Refractive index n		Temperature coefficient			
λ [nm]	Element	n	T_k [nm/°C]		
587.6	He	1.51		All data without tolerances are to be understood to be reference values. Guaranteed values are only those values listed in the section "Spectral values guaranteed".	

Colorimetric evaluation											
Illuminant	A (Planck T = 2856 K)			Illuminant	Planck T = 3200 K			Illuminant	D65 (T _c = 6504 K)		
d [mm]	1	2	3	d [mm]	1	2	3	d [mm]	1	2	3
x				x				x			
y				y				y			
Y				Y				Y			
λ_d [nm]				λ_d [nm]				λ_d [nm]			
P_e				P_e				P_e			





Internal transmittance τ_i at reference thickness d [mm] = 1
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	3.0E-01	800	4.0E-01	1100	2.9E-01	2200	6.0E-01	3700	7.0E-02
210	< 1.0E-05	510	3.0E-01	810	3.9E-01	1110	2.9E-01	2250	6.1E-01	3750	1.0E-01
220	< 1.0E-05	520	3.0E-01	820	3.9E-01	1120	2.9E-01	2300	6.2E-01	3800	1.3E-01
230	< 1.0E-05	530	3.0E-01	830	3.8E-01	1130	2.9E-01	2350	6.3E-01	3850	1.5E-01
240	< 1.0E-05	540	3.0E-01	840	3.7E-01	1140	2.9E-01	2400	6.4E-01	3900	1.4E-01
250	< 1.0E-05	550	3.1E-01	850	3.7E-01	1150	3.0E-01	2450	6.4E-01	3950	1.1E-01
260	< 1.0E-05	560	3.0E-01	860	3.6E-01	1160	3.0E-01	2500	6.5E-01	4000	9.4E-02
270	< 1.0E-05	570	3.0E-01	870	3.6E-01	1170	3.0E-01	2550	6.5E-01	4050	9.0E-02
280	< 1.0E-05	580	2.9E-01	880	3.5E-01	1180	3.0E-01	2600	6.5E-01	4100	9.4E-02
290	< 1.0E-05	590	2.9E-01	890	3.5E-01	1190	3.1E-01	2650	6.5E-01	4150	9.8E-02
300	< 1.0E-05	600	2.9E-01	900	3.4E-01	1200	3.1E-01	2700	6.1E-01	4200	1.0E-01
310	< 1.0E-05	610	3.0E-01	910	3.4E-01	1250	3.3E-01	2750	2.8E-01	4250	9.3E-02
320	< 1.0E-05	620	3.0E-01	920	3.3E-01	1300	3.5E-01	2800	1.5E-01	4300	7.3E-02
330	2.0E-04	630	3.0E-01	930	3.3E-01	1350	3.9E-01	2850	1.3E-01	4350	5.7E-02
340	6.0E-03	640	3.1E-01	940	3.2E-01	1400	4.2E-01	2900	1.5E-01	4400	4.0E-02
350	3.4E-02	650	3.1E-01	950	3.2E-01	1450	4.5E-01	2950	1.7E-01	4450	2.5E-02
360	8.9E-02	660	3.2E-01	960	3.1E-01	1500	4.8E-01	3000	1.9E-01	4500	1.6E-02
370	1.4E-01	670	3.3E-01	970	3.1E-01	1550	4.9E-01	3050	2.2E-01	4550	1.0E-02
380	1.4E-01	680	3.5E-01	980	3.0E-01	1600	5.1E-01	3100	2.4E-01	4600	6.2E-03
390	2.3E-01	690	3.7E-01	990	3.0E-01	1650	5.1E-01	3150	2.7E-01	4650	4.0E-03
400	2.7E-01	700	3.9E-01	1000	3.0E-01	1700	5.1E-01	3200	3.0E-01	4700	2.1E-03
410	2.8E-01	710	4.0E-01	1010	3.0E-01	1750	5.1E-01	3250	3.3E-01	4750	1.2E-03
420	2.8E-01	720	4.1E-01	1020	2.9E-01	1800	5.2E-01	3300	3.4E-01	4800	7.3E-04
430	2.9E-01	730	4.1E-01	1030	2.9E-01	1850	5.2E-01	3350	3.2E-01	4850	4.7E-04
440	2.9E-01	740	4.1E-01	1040	2.9E-01	1900	5.3E-01	3400	2.7E-01	4900	2.8E-04
450	3.0E-01	750	4.1E-01	1050	2.9E-01	1950	5.4E-01	3450	2.1E-01	4950	1.4E-04
460	3.2E-01	760	4.1E-01	1060	2.9E-01	2000	5.5E-01	3500	1.4E-01	5000	5.2E-05
470	3.1E-01	770	4.1E-01	1070	2.9E-01	2050	5.7E-01	3550	9.4E-02	5050	1.8E-05
480	3.1E-01	780	4.0E-01	1080	2.9E-01	2100	5.8E-01	3600	7.0E-02	5100	< 1.0E-05
490	3.0E-01	790	4.0E-01	1090	2.9E-01	2150	5.9E-01	3650	5.6E-02	5150	< 1.0E-05