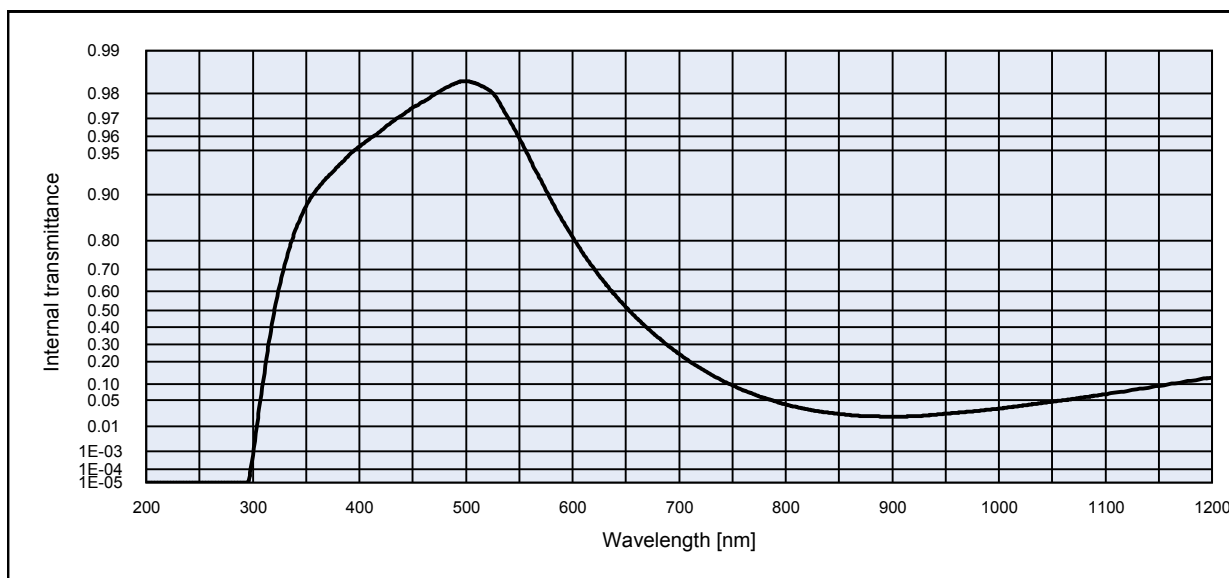
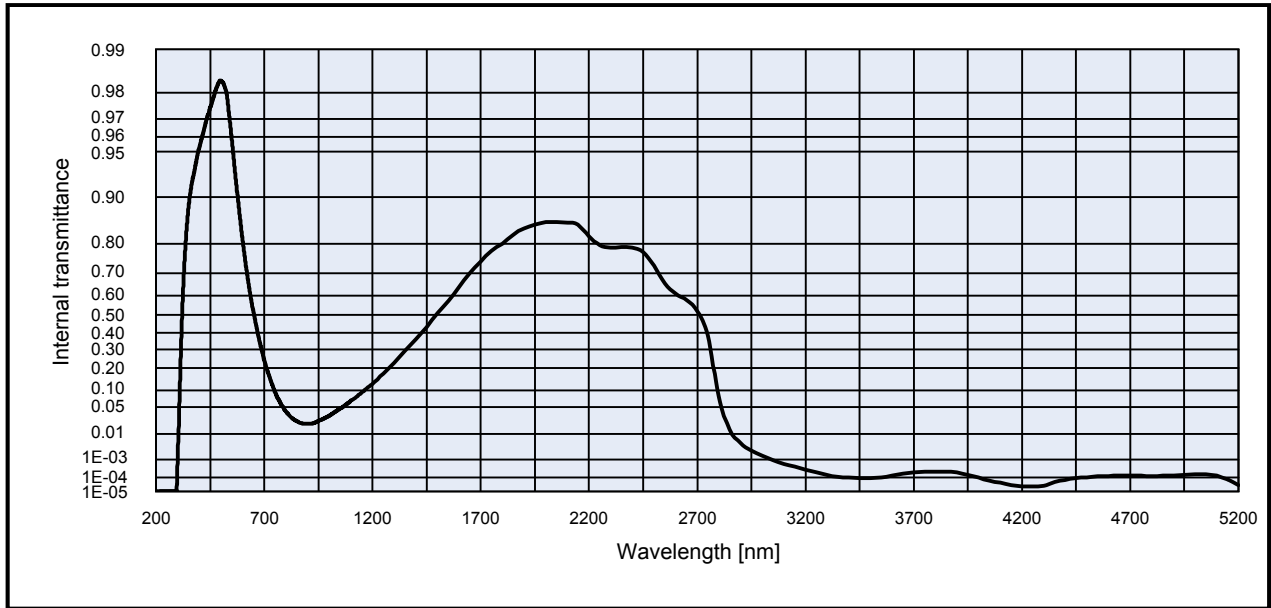


BG38			Density		Notes			
			ρ [g/cm ³]	2.66		Ionically colored glass		
Reflection factor			Bubble content			Band pass filter / short pass filter		
P_d	0.92		Bubble class					
Reference thickness			Chemical resistance					
d [mm]	1		FR class			0		
			SR class			2.0		
			AR class			2.0		
Spectral values guaranteed			Transformation temperature					
τ_i (350 nm)	\geq	0.80	T _g [°C]			482		
τ_i (405 nm)	\geq	0.93	Thermal expansion					
τ_i (514 nm)	\geq	0.95	$\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]			7.5		
τ_i (633 nm)	\leq	0.67	$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]			8.9		
τ_i (694 nm)	\leq	0.32	$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]					
τ_i (1060 nm)	\leq	0.06	Temperature coefficient					
			T _k [nm/°C]					
Refractive index n						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".		
λ [nm]	Element	n						
404.7	Hg	1.54						
587.6	He	1.53						

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	0.413	0.384	0.360	x	0.390	0.362	0.339	x	0.288	0.268	0.253	
y	0.419	0.427	0.433	y	0.407	0.413	0.417	y	0.328	0.326	0.323	
Y	80	71	64	Y	80	72	65	Y	83	76	71	
λ_d [nm]	501	500	500	λ_d [nm]	499	498	498	λ_d [nm]	491	491	490	
P _e	0.08	0.14	0.20	P _e	0.08	0.15	0.21	P _e	0.09	0.16	0.22	





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	9.8E-01	800	4.0E-02	1100	6.6E-02	2200	8.2E-01	3700	2.0E-04
210	< 1.0E-05	510	9.8E-01	810	3.5E-02	1110	7.1E-02	2250	8.0E-01	3750	2.3E-04
220	< 1.0E-05	520	9.8E-01	820	3.1E-02	1120	7.5E-02	2300	7.9E-01	3800	2.3E-04
230	< 1.0E-05	530	9.8E-01	830	2.8E-02	1130	8.1E-02	2350	7.9E-01	3850	2.2E-04
240	< 1.0E-05	540	9.7E-01	840	2.5E-02	1140	8.6E-02	2400	7.9E-01	3900	2.0E-04
250	< 1.0E-05	550	9.6E-01	850	2.3E-02	1150	9.3E-02	2450	7.8E-01	3950	1.4E-04
260	< 1.0E-05	560	9.4E-01	860	2.2E-02	1160	9.9E-02	2500	7.3E-01	4000	1.0E-04
270	< 1.0E-05	570	9.2E-01	870	2.1E-02	1170	1.0E-01	2550	6.6E-01	4050	6.5E-05
280	< 1.0E-05	580	8.9E-01	880	2.0E-02	1180	1.1E-01	2600	6.1E-01	4100	4.4E-05
290	< 1.0E-05	590	8.5E-01	890	2.0E-02	1190	1.2E-01	2650	5.8E-01	4150	3.1E-05
300	6.5E-04	600	8.1E-01	900	2.0E-02	1200	1.3E-01	2700	5.2E-01	4200	2.5E-05
310	1.1E-01	610	7.6E-01	910	2.0E-02	1250	1.7E-01	2750	3.9E-01	4250	2.4E-05
320	4.9E-01	620	7.0E-01	920	2.0E-02	1300	2.3E-01	2800	8.0E-02	4300	2.8E-05
330	7.2E-01	630	6.4E-01	930	2.1E-02	1350	2.9E-01	2850	1.4E-02	4350	5.0E-05
340	8.3E-01	640	5.8E-01	940	2.2E-02	1400	3.6E-01	2900	5.0E-03	4400	6.8E-05
350	8.8E-01	650	5.2E-01	950	2.4E-02	1450	4.3E-01	2950	2.5E-03	4450	9.0E-05
360	9.1E-01	660	4.6E-01	960	2.5E-02	1500	5.1E-01	3000	1.5E-03	4500	1.0E-04
370	9.2E-01	670	4.0E-01	970	2.7E-02	1550	5.8E-01	3050	9.3E-04	4550	1.2E-04
380	9.4E-01	680	3.4E-01	980	2.8E-02	1600	6.4E-01	3100	6.0E-04	4600	1.2E-04
390	9.5E-01	690	2.9E-01	990	3.0E-02	1650	7.0E-01	3150	4.2E-04	4650	1.3E-04
400	9.5E-01	700	2.4E-01	1000	3.2E-02	1700	7.4E-01	3200	3.0E-04	4700	1.3E-04
410	9.6E-01	710	2.0E-01	1010	3.4E-02	1750	7.8E-01	3250	2.1E-04	4750	1.3E-04
420	9.6E-01	720	1.7E-01	1020	3.7E-02	1800	8.0E-01	3300	1.4E-04	4800	1.3E-04
430	9.7E-01	730	1.4E-01	1030	4.0E-02	1850	8.2E-01	3350	1.1E-04	4850	1.3E-04
440	9.7E-01	740	1.2E-01	1040	4.3E-02	1900	8.4E-01	3400	1.0E-04	4900	1.3E-04
450	9.7E-01	750	9.5E-02	1050	4.6E-02	1950	8.5E-01	3450	9.1E-05	4950	1.4E-04
460	9.8E-01	760	7.8E-02	1060	4.9E-02	2000	8.5E-01	3500	9.5E-05	5000	1.6E-04
470	9.8E-01	770	6.6E-02	1070	5.3E-02	2050	8.5E-01	3550	1.1E-04	5050	1.5E-04
480	9.8E-01	780	5.5E-02	1080	5.7E-02	2100	8.5E-01	3600	1.4E-04	5100	1.3E-04
490	9.8E-01	790	4.7E-02	1090	6.1E-02	2150	8.5E-01	3650	1.7E-04	5150	7.5E-05