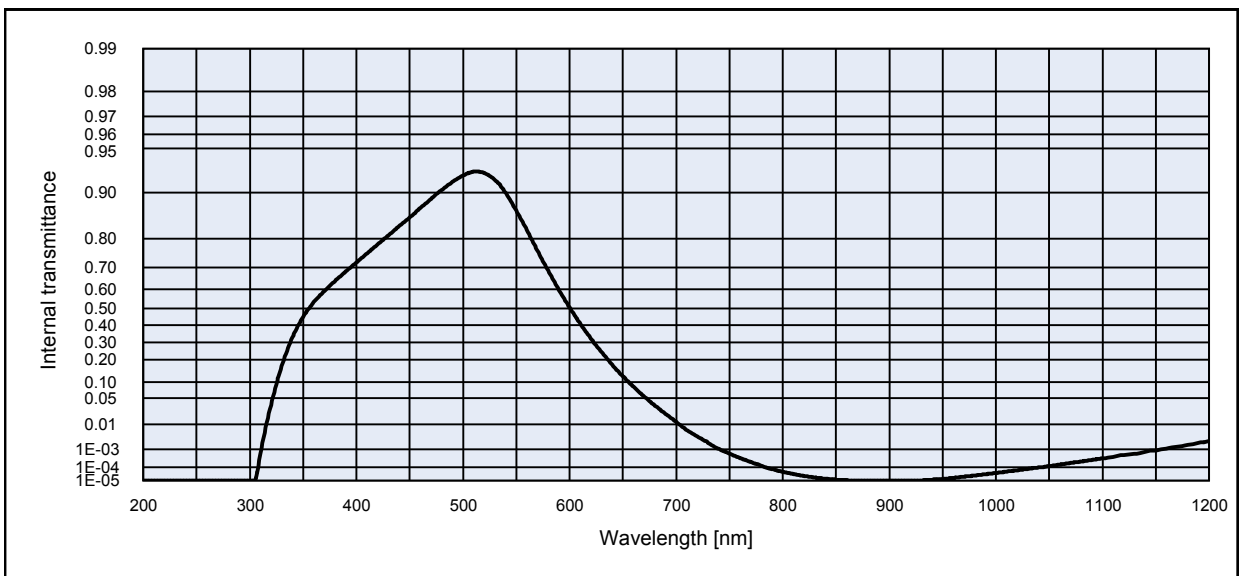
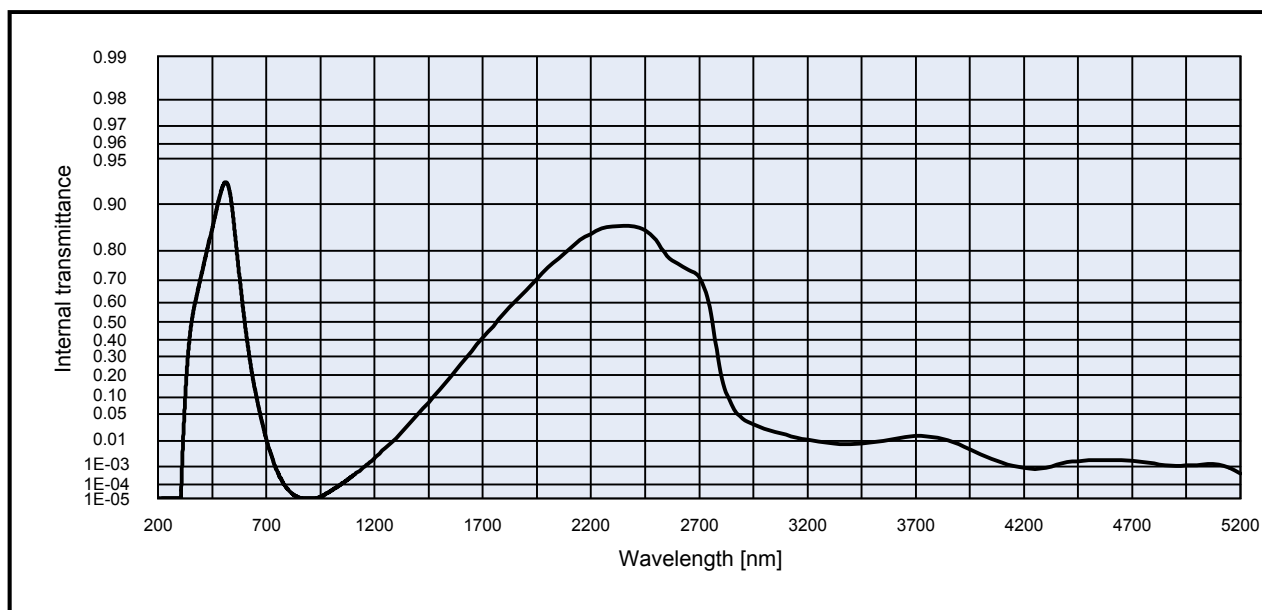


BG42			Density			Notes		
			ρ [g/cm ³]			Ionically colored glass		
			2.69			Band pass filter / short pass filter		
Reflection factor			Bubble content					
P_d			Bubble class					
0.91			2					
Reference thickness			Chemical resistance					
d [mm]			FR class					
1			SR class					
			AR class					
			2.0					
			2.0					
Spectral values guaranteed			Transformation temperature					
t_i (350 nm) \geq 0.40 t_i (405 nm) \geq 0.65 t_i (514 nm) \geq 0.88 t_i (633 nm) \leq 0.27 t_i (694 nm) \leq 0.03 t_i (1060 nm) \leq 0.002			T_g [°C]			475		
			Thermal expansion					
			$\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]			7.3		
			$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]			8.7		
			$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]					
Refractive index n			Temperature coefficient					
λ [nm]			Element			T_k [nm/°C]		
405			Hg					
588			He					
						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	0.359	0.305	0.270	x	0.338	0.288	0.256	x	0.254	0.222	0.203	
y	0.439	0.456	0.466	y	0.424	0.437	0.445	y	0.332	0.334	0.337	
Y	61	47	38	Y	63	48	39	Y	68	55	46	
λ_d [nm]	501	501	501	λ_d [nm]	499	499	499	λ_d [nm]	492	492	492	
P _e	0.20	0.32	0.40	P _e	0.21	0.33	0.41	P _e	0.21	0.33	0.39	





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	9.2E-01	800	4.7E-05	1100	3.3E-04	2200	8.4E-01	3700	1.4E-02
210	< 1.0E-05	510	9.3E-01	810	3.3E-05	1110	4.1E-04	2250	8.6E-01	3750	1.4E-02
220	< 1.0E-05	520	9.3E-01	820	2.3E-05	1120	5.0E-04	2300	8.6E-01	3800	1.2E-02
230	< 1.0E-05	530	9.2E-01	830	1.8E-05	1130	6.0E-04	2350	8.6E-01	3850	1.0E-02
240	< 1.0E-05	540	9.0E-01	840	1.4E-05	1140	7.7E-04	2400	8.6E-01	3900	8.0E-03
250	< 1.0E-05	550	8.7E-01	850	1.2E-05	1150	9.0E-04	2450	8.5E-01	3950	5.2E-03
260	< 1.0E-05	560	8.2E-01	860	1.1E-05	1160	1.1E-03	2500	8.3E-01	4000	3.3E-03
270	< 1.0E-05	570	7.6E-01	870	< 1.0E-05	1170	1.3E-03	2550	7.9E-01	4050	2.2E-03
280	< 1.0E-05	580	6.9E-01	880	< 1.0E-05	1180	1.6E-03	2600	7.6E-01	4100	1.5E-03
290	< 1.0E-05	590	6.0E-01	890	< 1.0E-05	1190	1.9E-03	2650	7.4E-01	4150	1.1E-03
300	< 1.0E-05	600	5.1E-01	900	< 1.0E-05	1200	2.3E-03	2700	7.1E-01	4200	8.4E-04
310	5.7E-04	610	4.1E-01	910	< 1.0E-05	1250	5.7E-03	2750	5.8E-01	4250	7.4E-04
320	3.5E-02	620	3.2E-01	920	< 1.0E-05	1300	1.2E-02	2800	2.1E-01	4300	8.4E-04
330	1.7E-01	630	2.4E-01	930	1.0E-05	1350	2.6E-02	2850	7.6E-02	4350	1.2E-03
340	3.3E-01	640	1.8E-01	940	1.2E-05	1400	5.0E-02	2900	4.0E-02	4400	1.5E-03
350	4.5E-01	650	1.2E-01	950	1.3E-05	1450	8.3E-02	2950	2.9E-02	4450	1.7E-03
360	5.3E-01	660	8.3E-02	960	1.6E-05	1500	1.3E-01	3000	2.3E-02	4500	1.9E-03
370	5.9E-01	670	5.4E-02	970	2.0E-05	1550	1.9E-01	3050	1.9E-02	4550	2.0E-03
380	6.4E-01	680	3.4E-02	980	2.5E-05	1600	2.6E-01	3100	1.5E-02	4600	2.0E-03
390	6.8E-01	690	2.1E-02	990	3.2E-05	1650	3.3E-01	3150	1.3E-02	4650	1.9E-03
400	7.2E-01	700	1.2E-02	1000	3.9E-05	1700	4.1E-01	3200	1.1E-02	4700	1.8E-03
410	7.5E-01	710	6.5E-03	1010	4.8E-05	1750	4.8E-01	3250	9.5E-03	4750	1.6E-03
420	7.8E-01	720	3.7E-03	1020	6.0E-05	1800	5.5E-01	3300	8.7E-03	4800	1.4E-03
430	8.1E-01	730	2.0E-03	1030	7.4E-05	1850	6.1E-01	3350	8.1E-03	4850	1.2E-03
440	8.3E-01	740	1.0E-03	1040	9.2E-05	1900	6.6E-01	3400	8.0E-03	4900	1.1E-03
450	8.5E-01	750	6.1E-04	1050	1.2E-04	1950	7.0E-01	3450	8.3E-03	4950	1.1E-03
460	8.7E-01	760	3.5E-04	1060	1.4E-04	2000	7.5E-01	3500	9.0E-03	5000	1.2E-03
470	8.9E-01	770	2.1E-04	1070	1.8E-04	2050	7.8E-01	3550	1.0E-02	5050	1.3E-03
480	9.0E-01	780	1.2E-04	1080	2.2E-04	2100	8.0E-01	3600	1.2E-02	5100	1.2E-03
490	9.2E-01	790	7.2E-05	1090	2.7E-04	2150	8.3E-01	3650	1.3E-02	5150	8.6E-04