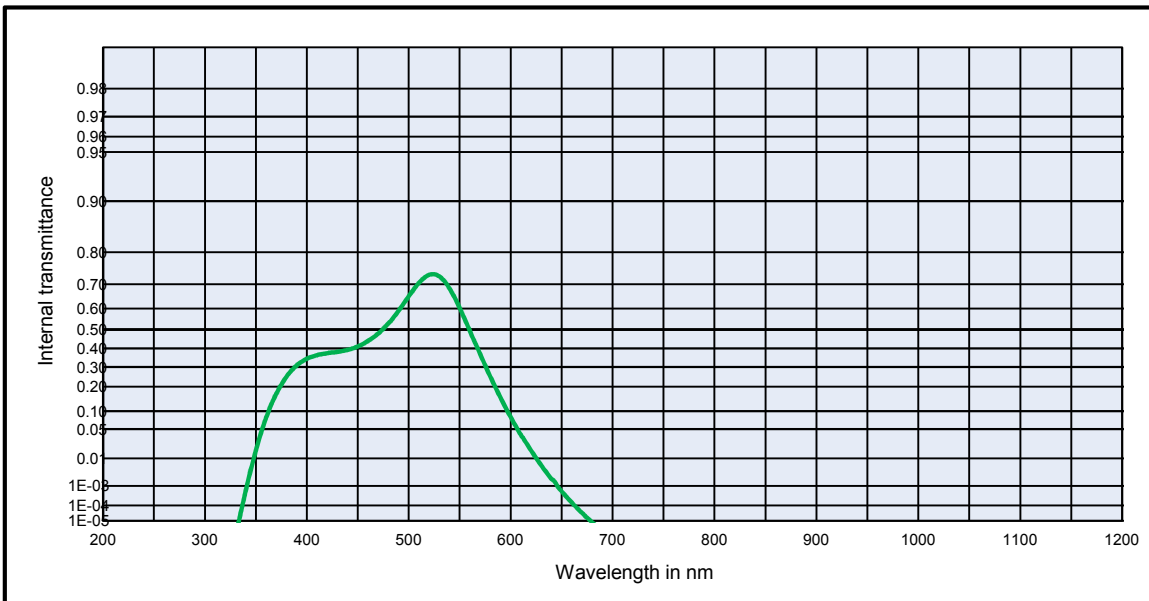
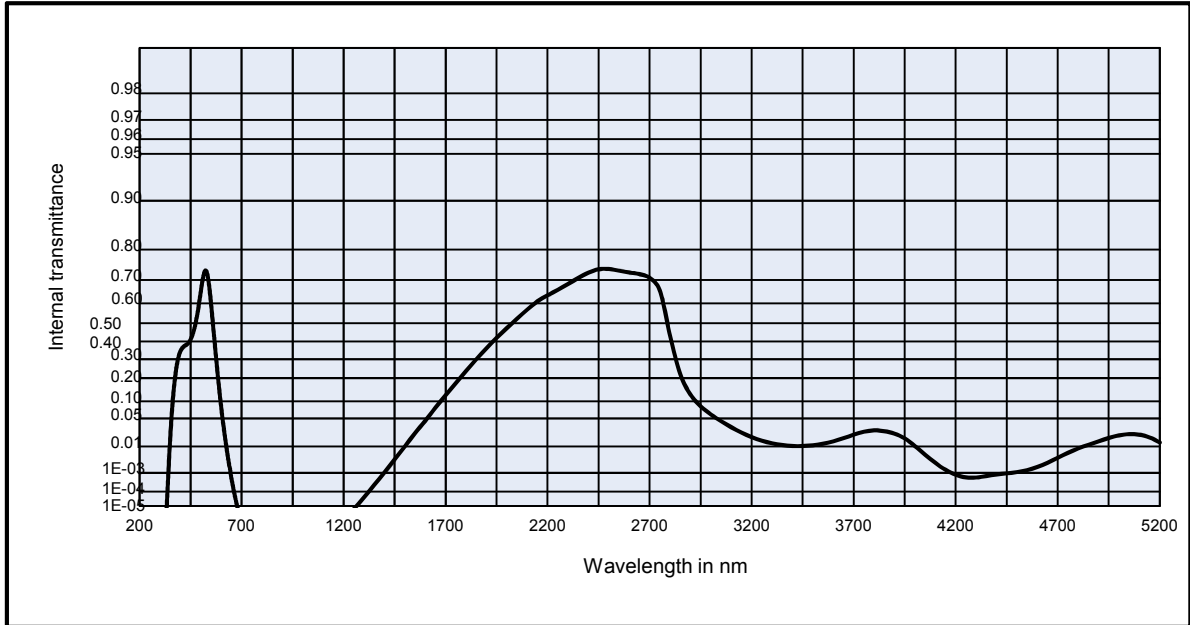


BG57		Density		Notes	
		ρ [g/cm ³]	2,81		
Reflection factor		Bubble content		Ionically colored glass	
P_d	0,91	Bubble class	0	Bandpass filter	
				IR cut filter	
Reference thickness		Chemical resistance			
d	1 mm	FR class	0		
		SR class	5.2	lambda50%(thickness=0.11mm)=634 nm	
		AR class	3.0		
Spectral values guaranteed		Transformation temperature			
τ_i (405 nm) \geq	0,35	T_g [°C]	411	Long-term changes of the polished surface are possible under some circumstances.	
τ_i (430 nm) \geq	0,37				
τ_i (514 nm) \geq	0,71				
τ_i (565 nm) \geq	0,42				
τ_i (633 nm) \leq	0,02				
τ_i (1500 nm) \leq	0,02				
Refractive index n		Thermal expansion			
n_e (546.1 nm) =	1.552	$\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	9,7		
n_d (587.6 nm) =	1.550	$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	11,5		
		$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]			
Sellmeier coefficients on request		Temperature coefficient			
		T_k [nm/°C]		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	d /mm	1	2	3
x		0,265	0,215	0,191	x	0,252	0,207	0,186	x	0,204	0,178	0,164	x	0,379	0,442	0,507
y		0,501	0,557	0,604	y	0,481	0,538	0,589	y	0,379	0,442	0,507	y	40	24	15
Y		32	18	11	Y	34	19	12	Y	40	24	15	Y	497	502	507
λ_d /nm		504	507	510	λ_d /nm	503	506	509	λ_d /nm	497	502	507	λ_d /nm	497	502	507
P_e		0,41	0,53	0,59	P_e	0,41	0,52	0,58	P_e	0,37	0,44	0,48	P_e	0,37	0,44	0,48





Internal transmittance τ_i at reference thickness $d = 1 \text{ mm}$
 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	# #NV	500	6,5E-01	800	# #NV	1100	< 1,0E-05	2200	6,4E-01	3700	2,1E-02
210	# #NV	510	7,0E-01	810	# #NV	1110	< 1,0E-05	2250	6,6E-01	3750	2,5E-02
220	# #NV	520	7,3E-01	820	# #NV	1120	< 1,0E-05	2300	6,8E-01	3800	2,7E-02
230	# #NV	530	7,3E-01	830	# #NV	1130	< 1,0E-05	2350	7,1E-01	3850	2,6E-02
240	# #NV	540	6,8E-01	840	# #NV	1140	< 1,0E-05	2400	7,3E-01	3900	2,3E-02
250	# #NV	550	6,0E-01	850	# #NV	1150	< 1,0E-05	2450	7,4E-01	3950	1,7E-02
260	# #NV	560	4,9E-01	860	# #NV	1160	< 1,0E-05	2500	7,4E-01	4000	1,0E-02
270	# #NV	570	3,7E-01	870	< 1,0E-05	1170	< 1,0E-05	2550	7,3E-01	4050	5,4E-03
280	# #NV	580	2,5E-01	880	< 1,0E-05	1180	< 1,0E-05	2600	7,3E-01	4100	2,7E-03
290	# #NV	590	1,5E-01	890	# #NV	1190	< 1,0E-05	2650	7,2E-01	4150	1,4E-03
300	# #NV	600	8,1E-02	900	# #NV	1200	< 1,0E-05	2700	7,1E-01	4200	8,2E-04
310	# #NV	610	3,8E-02	910	# #NV	1250	< 1,0E-05	2750	6,6E-01	4250	6,1E-04
320	# #NV	620	1,6E-02	920	< 1,0E-05	1300	4,3E-05	2800	4,3E-01	4300	6,0E-04
330	< 1,0E-05	630	6,1E-03	930	# #NV	1350	2,4E-04	2850	2,2E-01	4350	7,1E-04
340	6,1E-04	640	2,0E-03	940	# #NV	1400	1,1E-03	2900	1,3E-01	4400	8,5E-04
350	1,7E-02	650	5,7E-04	950	# #NV	1450	3,7E-03	2950	8,4E-02	4450	9,5E-04
360	8,0E-02	660	1,5E-04	960	# #NV	1500	1,0E-02	3000	6,0E-02	4500	1,1E-03
370	1,7E-01	670	3,5E-05	970	# #NV	1550	2,3E-02	3050	4,4E-02	4550	1,3E-03
380	2,5E-01	680	< 1,0E-05	980	< 1,0E-05	1600	4,5E-02	3100	3,3E-02	4600	1,8E-03
390	3,1E-01	690	< 1,0E-05	990	< 1,0E-05	1650	7,9E-02	3150	2,4E-02	4650	2,7E-03
400	3,4E-01	700	< 1,0E-05	1000	# #NV	1700	1,2E-01	3200	1,9E-02	4700	4,2E-03
410	3,6E-01	710	< 1,0E-05	1010	< 1,0E-05	1750	1,8E-01	3250	1,5E-02	4750	6,2E-03
420	3,7E-01	720	< 1,0E-05	1020	# #NV	1800	2,4E-01	3300	1,2E-02	4800	8,6E-03
430	3,8E-01	730	< 1,0E-05	1030	< 1,0E-05	1850	3,0E-01	3350	1,1E-02	4850	1,1E-02
440	3,9E-01	740	< 1,0E-05	1040	< 1,0E-05	1900	3,6E-01	3400	1,0E-02	4900	1,4E-02
450	4,1E-01	750	< 1,0E-05	1050	< 1,0E-05	1950	4,2E-01	3450	1,0E-02	4950	1,8E-02
460	4,4E-01	760	# #NV	1060	< 1,0E-05	2000	4,7E-01	3500	1,1E-02	5000	2,1E-02
470	4,8E-01	770	# #NV	1070	< 1,0E-05	2050	5,2E-01	3550	1,2E-02	5050	2,2E-02
480	5,3E-01	780	# #NV	1080	< 1,0E-05	2100	5,7E-01	3600	1,4E-02	5100	2,1E-02
490	5,9E-01	790	# #NV	1090	< 1,0E-05	2150	6,1E-01	3650	1,7E-02	5150	1,8E-02