

KG1

Reflection factor	
P_d	0.92

Reference thickness	
d [mm]	2

Spectral values guaranteed	
τ_i (365 nm)	≥ 0.89
τ_i (500 nm)	≥ 0.92
τ_i (600 nm)	≥ 0.88
τ_i (700 nm)	≤ 0.68
τ_i (800 nm)	≤ 0.33
τ_i (900 nm)	≤ 0.10
τ_i (1060 nm)	≤ 0.02
τ_i (2200 nm)	≤ 0.06

Refractive index n		
λ [nm]	Element	n
365	Hg	1.53
587.6	He	1.52

Density	
ρ [g/cm ³]	2.53

Bubble content	
Bubble class	3

Chemical resistance	
FR class	0
SR class	2.0
AR class	3.0

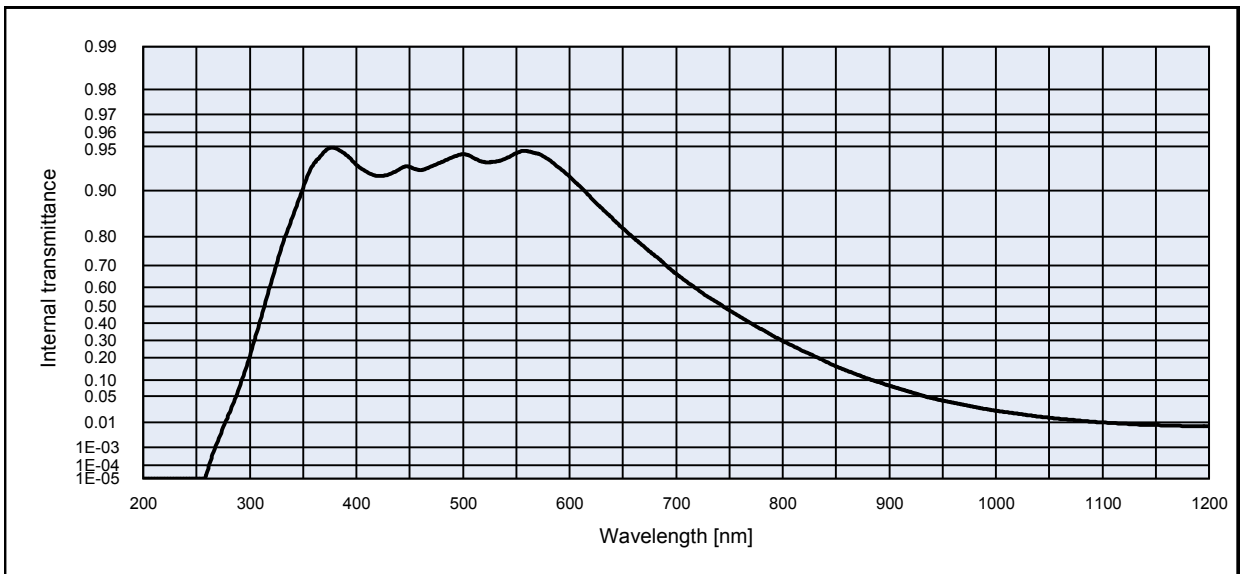
Transformation temperature	
T_g [°C]	599

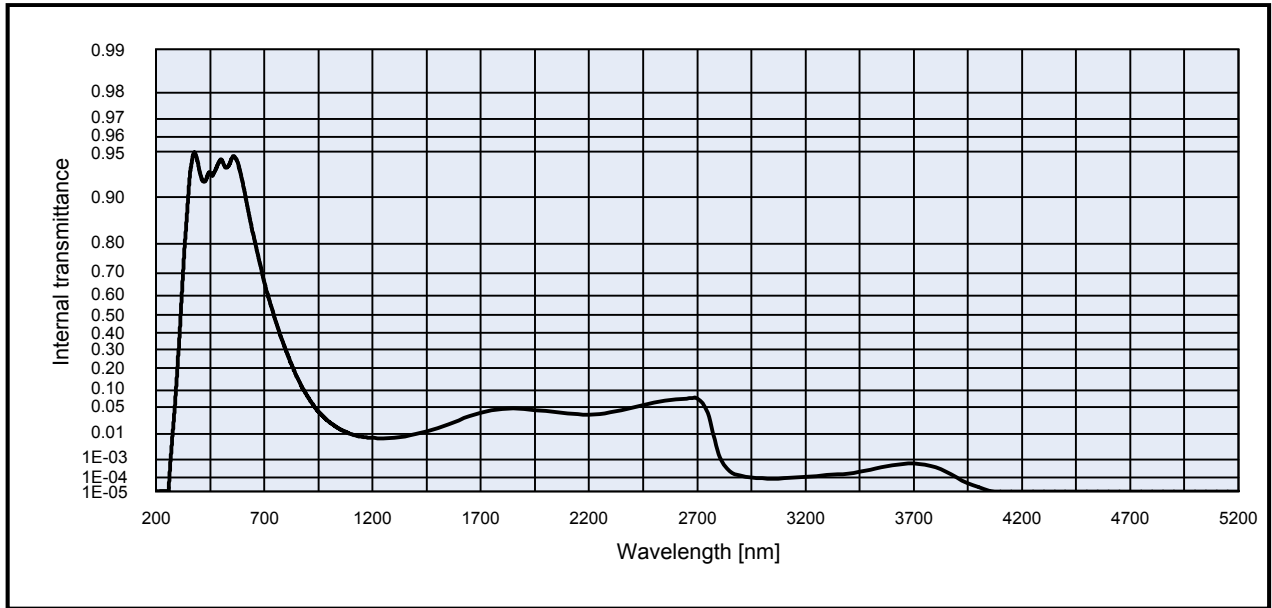
Thermal expansion	
$\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	5.3
$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	6.1
$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]	

Temperature coefficient	
T_k [nm/°C]	

Notes
Ionically colored glass
Short pass filter
Heat protection filter
[!]
Long-term changes in the polished surface are possible under some circumstances
V
Transmission changes are possible under the action of intense ultraviolet radiation
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	0.444	0.441	0.438	x	0.420	0.417	0.415	x	0.311	0.309	0.307	
y	0.409	0.411	0.413	y	0.401	0.402	0.404	y	0.330	0.331	0.332	
Y	88	85	82	Y	88	85	82	Y	89	86	83	
λ_d [nm]	505	505	505	λ_d [nm]	503	504	504	λ_d [nm]	497	497	498	
P_e	0.01	0.01	0.02	P_e	0.01	0.01	0.02	P_e	0.01	0.01	0.02	





Internal transmittance τ_i at reference thickness d [mm] = 2
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	9.4E-01	800	2.9E-01	1100	9.9E-03	2200	3.4E-02	3700	6.6E-04
210	< 1.0E-05	510	9.4E-01	810	2.7E-01	1110	9.4E-03	2250	3.5E-02	3750	5.7E-04
220	< 1.0E-05	520	9.4E-01	820	2.3E-01	1120	9.0E-03	2300	3.8E-02	3800	4.0E-04
230	< 1.0E-05	530	9.4E-01	830	2.1E-01	1130	8.6E-03	2350	4.3E-02	3850	2.4E-04
240	< 1.0E-05	540	9.4E-01	840	1.8E-01	1140	8.4E-03	2400	4.9E-02	3900	1.0E-04
250	< 1.0E-05	550	9.4E-01	850	1.6E-01	1150	8.2E-03	2450	5.5E-02	3950	4.2E-05
260	3.5E-05	560	9.5E-01	860	1.4E-01	1160	8.0E-03	2500	6.2E-02	4000	2.1E-05
270	2.0E-03	570	9.4E-01	870	1.2E-01	1170	7.8E-03	2550	6.7E-02	4050	1.1E-05
280	1.7E-02	580	9.4E-01	880	1.0E-01	1180	7.6E-03	2600	7.1E-02	4100	< 1.0E-05
290	7.3E-02	590	9.3E-01	890	9.2E-02	1190	7.5E-03	2650	7.3E-02	4150	< 1.0E-05
300	2.1E-01	600	9.2E-01	900	8.0E-02	1200	7.4E-03	2700	7.2E-02	4200	< 1.0E-05
310	4.2E-01	610	9.1E-01	910	6.9E-02	1250	7.2E-03	2750	3.7E-02	4250	< 1.0E-05
320	6.2E-01	620	8.9E-01	920	6.0E-02	1300	7.6E-03	2800	1.7E-03	4300	< 1.0E-05
330	7.7E-01	630	8.7E-01	930	5.2E-02	1350	8.5E-03	2850	2.5E-04	4350	< 1.0E-05
340	8.5E-01	640	8.5E-01	940	4.5E-02	1400	9.8E-03	2900	1.3E-04	4400	< 1.0E-05
350	9.0E-01	650	8.2E-01	950	4.0E-02	1450	1.2E-02	2950	9.9E-05	4450	< 1.0E-05
360	9.3E-01	660	8.0E-01	960	3.5E-02	1500	1.5E-02	3000	8.9E-05	4500	< 1.0E-05
370	9.5E-01	670	7.7E-01	970	3.2E-02	1550	1.9E-02	3050	8.6E-05	4550	< 1.0E-05
380	9.5E-01	680	7.4E-01	980	2.8E-02	1600	2.5E-02	3100	9.0E-05	4600	< 1.0E-05
390	9.4E-01	690	7.0E-01	990	2.5E-02	1650	3.1E-02	3150	9.8E-05	4650	< 1.0E-05
400	9.3E-01	700	6.6E-01	1000	2.2E-02	1700	3.7E-02	3200	1.1E-04	4700	< 1.0E-05
410	9.3E-01	710	6.3E-01	1010	2.0E-02	1750	4.2E-02	3250	1.2E-04	4750	< 1.0E-05
420	9.2E-01	720	5.9E-01	1020	1.8E-02	1800	4.6E-02	3300	1.4E-04	4800	< 1.0E-05
430	9.2E-01	730	5.5E-01	1030	1.7E-02	1850	4.6E-02	3350	1.6E-04	4850	< 1.0E-05
440	9.3E-01	740	5.2E-01	1040	1.5E-02	1900	4.5E-02	3400	1.8E-04	4900	< 1.0E-05
450	9.3E-01	750	4.8E-01	1050	1.4E-02	1950	4.3E-02	3450	2.2E-04	4950	< 1.0E-05
460	9.3E-01	760	4.4E-01	1060	1.3E-02	2000	4.1E-02	3500	2.9E-04	5000	< 1.0E-05
470	9.3E-01	770	4.0E-01	1070	1.2E-02	2050	3.8E-02	3550	3.9E-04	5050	< 1.0E-05
480	9.4E-01	780	3.7E-01	1080	1.1E-02	2100	3.6E-02	3600	5.1E-04	5100	< 1.0E-05
490	9.4E-01	790	3.3E-01	1090	1.1E-02	2150	3.4E-02	3650	6.1E-04	5150	< 1.0E-05