

BG25

Reflection factor	
P_d	0.92

Reference thickness	
d [mm]	1

Spectral values guaranteed	
τ_i (334 nm)	≤ 0.80
τ_i (405 nm)	≥ 0.93
τ_i (488 nm)	≤ 0.39
τ_i (725 nm)	≤ 0.36

Refractive index n		
λ [nm]	Element	n
404.7	Hg	1.53
587.6	He	1.51

Density	
ρ [g/cm ³]	2.56

Bubble content	
Bubble class	1

Chemical resistance	
FR class	0
SR class	1.0
AR class	1.0

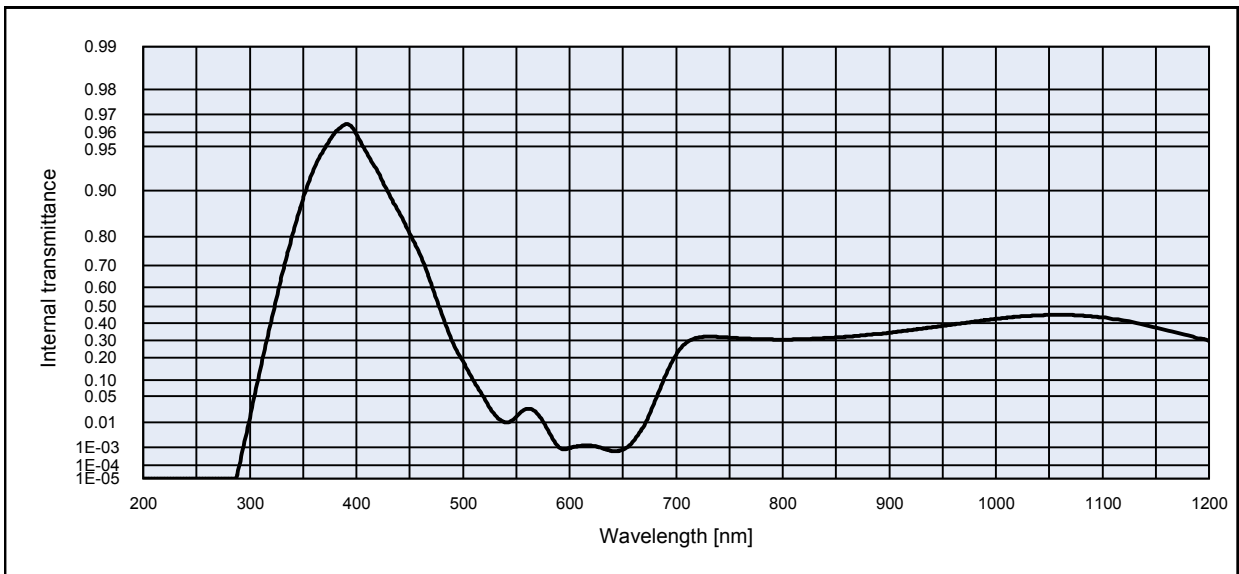
Transformation temperature	
T_g [°C]	487

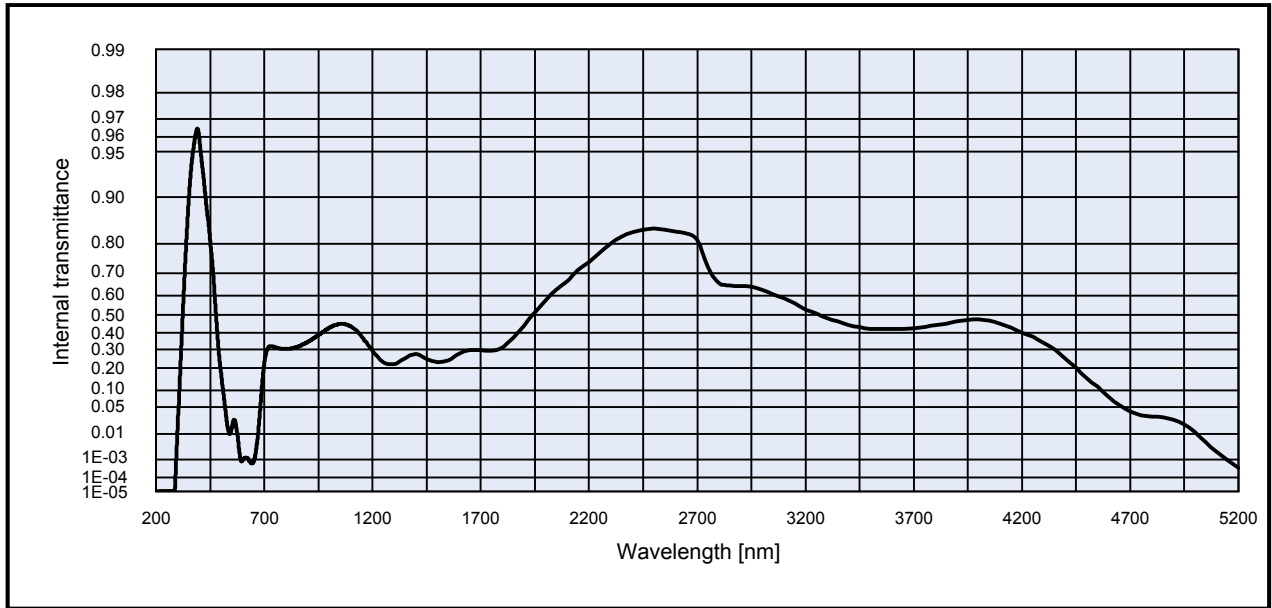
Thermal expansion	
$\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	8.7
$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	10.1
$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]	

Temperature coefficient	
T_k [nm/°C]	

Notes
Ionically colored glass
Band pass filter
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]
x	0.155	0.151	0.155	x	0.153	0.152	0.155	x	0.150	0.153	0.157
y	0.093	0.035	0.024	y	0.083	0.033	0.023	y	0.055	0.027	0.021
Y	3	1	0	Y	3	1	0	Y	5	2	1
λ_d [nm]	470	459	454	λ_d [nm]	469	458	453	λ_d [nm]	463	455	451
P_e	0.90	0.98	0.99	P_e	0.91	0.98	0.99	P_e	0.93	0.98	0.99





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	1.8E-01	800	3.0E-01	1100	4.3E-01	2200	7.4E-01	3700	4.3E-01
210	< 1.0E-05	510	9.7E-02	810	3.0E-01	1110	4.3E-01	2250	7.7E-01	3750	4.3E-01
220	< 1.0E-05	520	4.5E-02	820	3.1E-01	1120	4.2E-01	2300	8.0E-01	3800	4.4E-01
230	< 1.0E-05	530	1.7E-02	830	3.1E-01	1130	4.1E-01	2350	8.2E-01	3850	4.5E-01
240	< 1.0E-05	540	1.0E-02	840	3.1E-01	1140	3.9E-01	2400	8.3E-01	3900	4.6E-01
250	< 1.0E-05	550	1.5E-02	850	3.2E-01	1150	3.8E-01	2450	8.4E-01	3950	4.7E-01
260	< 1.0E-05	560	2.5E-02	860	3.2E-01	1160	3.6E-01	2500	8.4E-01	4000	4.8E-01
270	< 1.0E-05	570	1.8E-02	870	3.3E-01	1170	3.5E-01	2550	8.4E-01	4050	4.7E-01
280	< 1.0E-05	580	5.2E-03	880	3.3E-01	1180	3.3E-01	2600	8.3E-01	4100	4.5E-01
290	8.5E-05	590	1.0E-03	890	3.4E-01	1190	3.1E-01	2650	8.3E-01	4150	4.3E-01
300	1.4E-02	600	9.1E-04	900	3.4E-01	1200	2.9E-01	2700	8.1E-01	4200	4.0E-01
310	1.4E-01	610	1.2E-03	910	3.5E-01	1250	2.3E-01	2750	7.3E-01	4250	3.8E-01
320	4.1E-01	620	1.2E-03	920	3.6E-01	1300	2.2E-01	2800	6.6E-01	4300	3.4E-01
330	6.6E-01	630	9.3E-04	930	3.7E-01	1350	2.5E-01	2850	6.5E-01	4350	3.0E-01
340	8.1E-01	640	6.4E-04	940	3.8E-01	1400	2.8E-01	2900	6.5E-01	4400	2.5E-01
350	8.9E-01	650	7.6E-04	950	3.9E-01	1450	2.5E-01	2950	6.4E-01	4450	2.0E-01
360	9.3E-01	660	2.0E-03	960	3.9E-01	1500	2.3E-01	3000	6.3E-01	4500	1.5E-01
370	9.5E-01	670	8.0E-03	970	4.0E-01	1550	2.4E-01	3050	6.1E-01	4550	1.1E-01
380	9.6E-01	680	3.8E-02	980	4.1E-01	1600	2.8E-01	3100	5.9E-01	4600	7.8E-02
390	9.7E-01	690	1.2E-01	990	4.2E-01	1650	3.0E-01	3150	5.6E-01	4650	5.5E-02
400	9.6E-01	700	2.2E-01	1000	4.3E-01	1700	3.0E-01	3200	5.3E-01	4700	4.0E-02
410	9.4E-01	710	2.9E-01	1010	4.3E-01	1750	2.9E-01	3250	5.1E-01	4750	3.3E-02
420	9.3E-01	720	3.1E-01	1020	4.4E-01	1800	3.1E-01	3300	4.8E-01	4800	3.0E-02
430	9.0E-01	730	3.2E-01	1030	4.4E-01	1850	3.7E-01	3350	4.6E-01	4850	2.9E-02
440	8.6E-01	740	3.2E-01	1040	4.5E-01	1900	4.4E-01	3400	4.4E-01	4900	2.6E-02
450	8.1E-01	750	3.2E-01	1050	4.5E-01	1950	5.1E-01	3450	4.3E-01	4950	2.0E-02
460	7.4E-01	760	3.1E-01	1060	4.5E-01	2000	5.8E-01	3500	4.2E-01	5000	1.1E-02
470	6.2E-01	770	3.1E-01	1070	4.5E-01	2050	6.3E-01	3550	4.2E-01	5050	5.2E-03
480	4.6E-01	780	3.1E-01	1080	4.5E-01	2100	6.7E-01	3600	4.2E-01	5100	2.2E-03
490	2.9E-01	790	3.0E-01	1090	4.4E-01	2150	7.1E-01	3650	4.2E-01	5150	9.4E-04