

BG3

Reflection factor	
P_d	0.92

Reference thickness	
d [mm]	1

Spectral values guaranteed	
t_i (365 nm)	≥ 0.94
t_i (633 nm)	$\leq 5 \cdot 10^{-5}$

Refractive index n		
λ [nm]	Element	n
302.1	Hg	1.55
435.8	Hg	1.52
587.6	He	1.51
1014	Hg	1.50

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

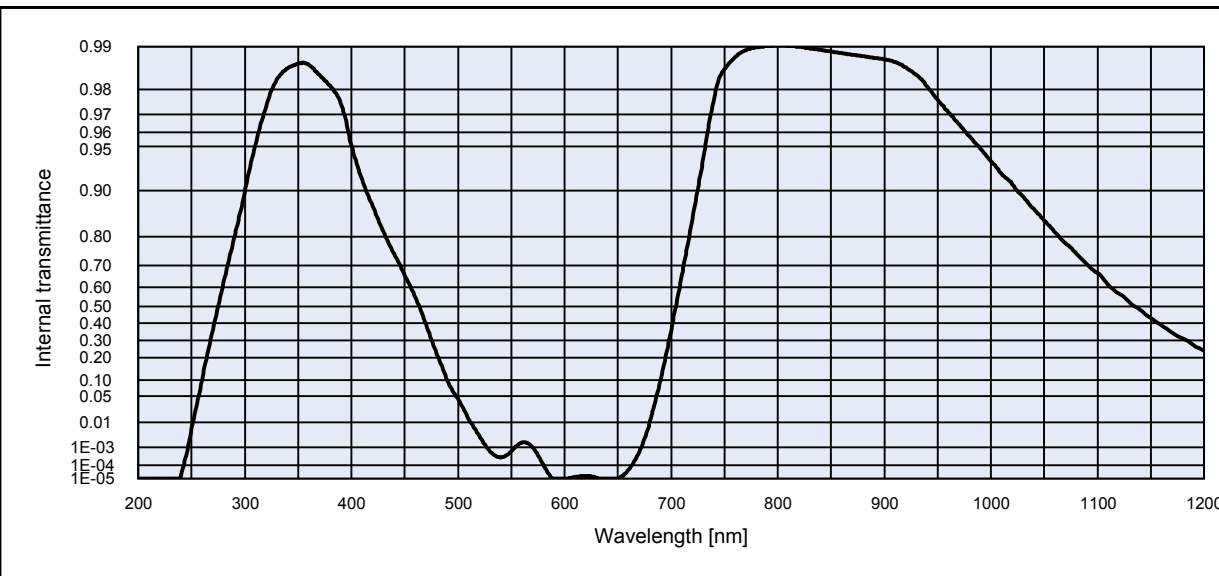
Transformation temperature	
T_g [°C]	478

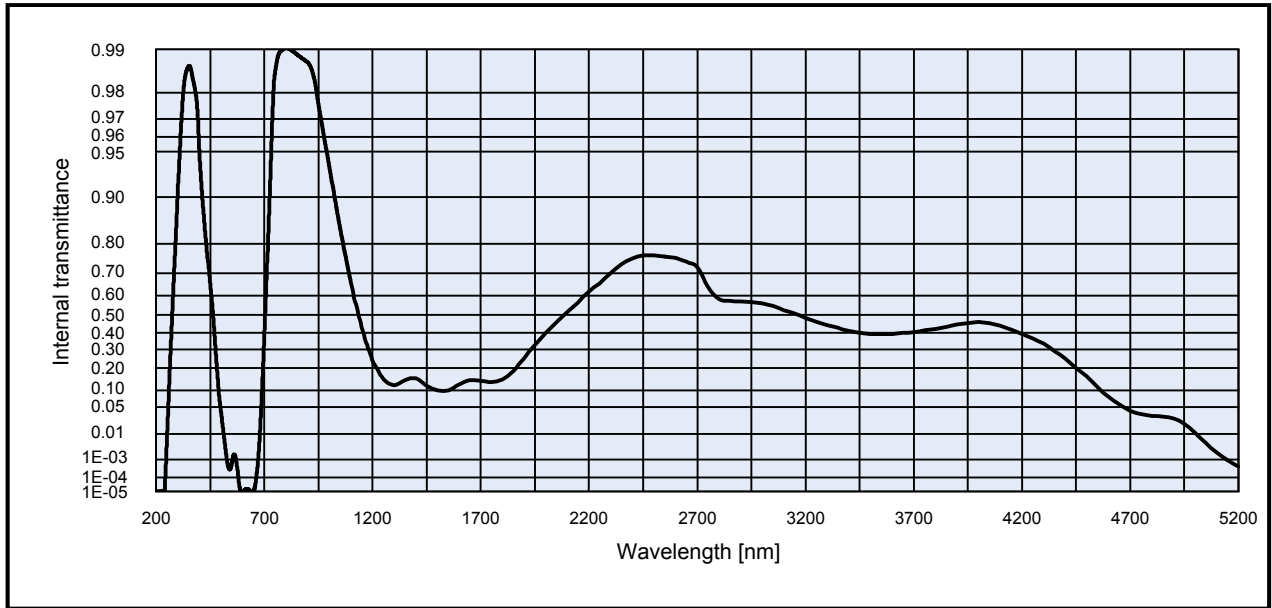
Thermal expansion	
$\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	8.8
$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	10.2
$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]	

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	0.160	0.166	0.170	x	0.157	0.163	0.167	x	0.154	0.160	0.163
y	0.042	0.024	0.020	y	0.038	0.022	0.018	y	0.029	0.018	0.014
Y	1	0	0	Y	1	0	0	Y	2	1	0
λ_d [nm]	458	447	440	λ_d [nm]	457	447	442	λ_d [nm]	455	448	444
P_e	0.96	0.98	0.98	P_e	0.97	0.98	0.99	P_e	0.98	0.99	1.00





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	4.3E-02	800	9.9E-01	1100	6.7E-01	2200	6.2E-01	3700	4.0E-01
210	< 1.0E-05	510	1.3E-02	810	9.9E-01	1110	6.2E-01	2250	6.6E-01	3750	4.1E-01
220	< 1.0E-05	520	3.2E-03	820	9.9E-01	1120	5.7E-01	2300	7.0E-01	3800	4.2E-01
230	< 1.0E-05	530	6.4E-04	830	9.9E-01	1130	5.2E-01	2350	7.3E-01	3850	4.3E-01
240	1.9E-05	540	3.0E-04	840	9.9E-01	1140	4.8E-01	2400	7.5E-01	3900	4.5E-01
250	6.1E-03	550	6.2E-04	850	9.9E-01	1150	4.3E-01	2450	7.6E-01	3950	4.6E-01
260	1.0E-01	560	1.7E-03	860	9.9E-01	1160	3.9E-01	2500	7.7E-01	4000	4.6E-01
270	3.6E-01	570	1.0E-03	870	9.9E-01	1170	3.4E-01	2550	7.6E-01	4050	4.6E-01
280	6.3E-01	580	1.1E-04	880	9.9E-01	1180	3.1E-01	2600	7.6E-01	4100	4.4E-01
290	8.0E-01	590	< 1.0E-05	890	9.9E-01	1190	2.7E-01	2650	7.4E-01	4150	4.2E-01
300	9.0E-01	600	< 1.0E-05	900	9.9E-01	1200	2.4E-01	2700	7.2E-01	4200	3.9E-01
310	9.5E-01	610	1.3E-05	910	9.9E-01	1250	1.5E-01	2750	6.4E-01	4250	3.7E-01
320	9.7E-01	620	1.6E-05	920	9.9E-01	1300	1.2E-01	2800	5.9E-01	4300	3.4E-01
330	9.8E-01	630	1.2E-05	930	9.8E-01	1350	1.4E-01	2850	5.8E-01	4350	2.9E-01
340	9.9E-01	640	< 1.0E-05	940	9.8E-01	1400	1.5E-01	2900	5.7E-01	4400	2.5E-01
350	9.9E-01	650	< 1.0E-05	950	9.8E-01	1450	1.2E-01	2950	5.7E-01	4450	2.0E-01
360	9.9E-01	660	4.7E-05	960	9.7E-01	1500	1.0E-01	3000	5.6E-01	4500	1.6E-01
370	9.8E-01	670	5.9E-04	970	9.7E-01	1550	1.0E-01	3050	5.5E-01	4550	1.1E-01
380	9.8E-01	680	1.0E-02	980	9.6E-01	1600	1.2E-01	3100	5.3E-01	4600	7.8E-02
390	9.8E-01	690	1.0E-01	990	9.5E-01	1650	1.4E-01	3150	5.1E-01	4650	5.6E-02
400	9.5E-01	700	3.6E-01	1000	9.4E-01	1700	1.4E-01	3200	4.8E-01	4700	4.2E-02
410	9.2E-01	710	6.6E-01	1010	9.2E-01	1750	1.3E-01	3250	4.6E-01	4750	3.5E-02
420	8.7E-01	720	8.5E-01	1020	9.1E-01	1800	1.4E-01	3300	4.4E-01	4800	3.2E-02
430	8.2E-01	730	9.4E-01	1030	8.9E-01	1850	1.8E-01	3350	4.3E-01	4850	3.1E-02
440	7.5E-01	740	9.8E-01	1040	8.7E-01	1900	2.5E-01	3400	4.1E-01	4900	2.7E-02
450	6.6E-01	750	9.9E-01	1050	8.4E-01	1950	3.3E-01	3450	4.0E-01	4950	2.0E-02
460	5.5E-01	760	9.9E-01	1060	8.1E-01	2000	4.0E-01	3500	3.9E-01	5000	1.1E-02
470	3.9E-01	770	9.9E-01	1070	7.8E-01	2050	4.6E-01	3550	3.9E-01	5050	5.1E-03
480	2.2E-01	780	9.9E-01	1080	7.5E-01	2100	5.2E-01	3600	3.9E-01	5100	2.0E-03
490	9.7E-02	790	9.9E-01	1090	7.1E-01	2150	5.7E-01	3650	4.0E-01	5150	9.1E-04