

UG11

Reflection factor	
P_d	0.91

Reference thickness	
d [mm]	1

Spectral values guaranteed	
τ_i (254 nm)	≥ 0.06
τ_i (334 nm)	≥ 0.90
τ_i (405 nm)	≤ 0.001
τ_i (694 nm)	≤ 0.26
τ_i (725 nm)	≤ 0.32

Refractive index n		
λ [nm]	Element	n
365	Hg	1.59
587.6	He	1.56

Density	
ρ [g/cm ³]	2.92

Bubble content	
Bubble class	2

Chemical resistance	
FR class	0
SR class	3.0
AR class	2.2

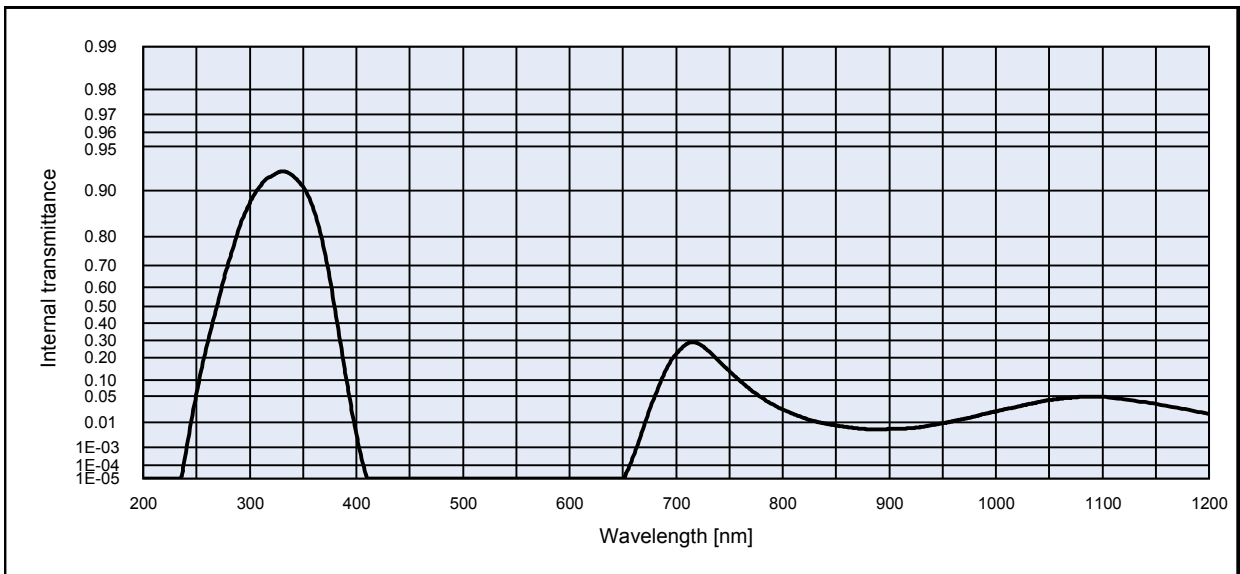
Transformation temperature	
T_g [°C]	545

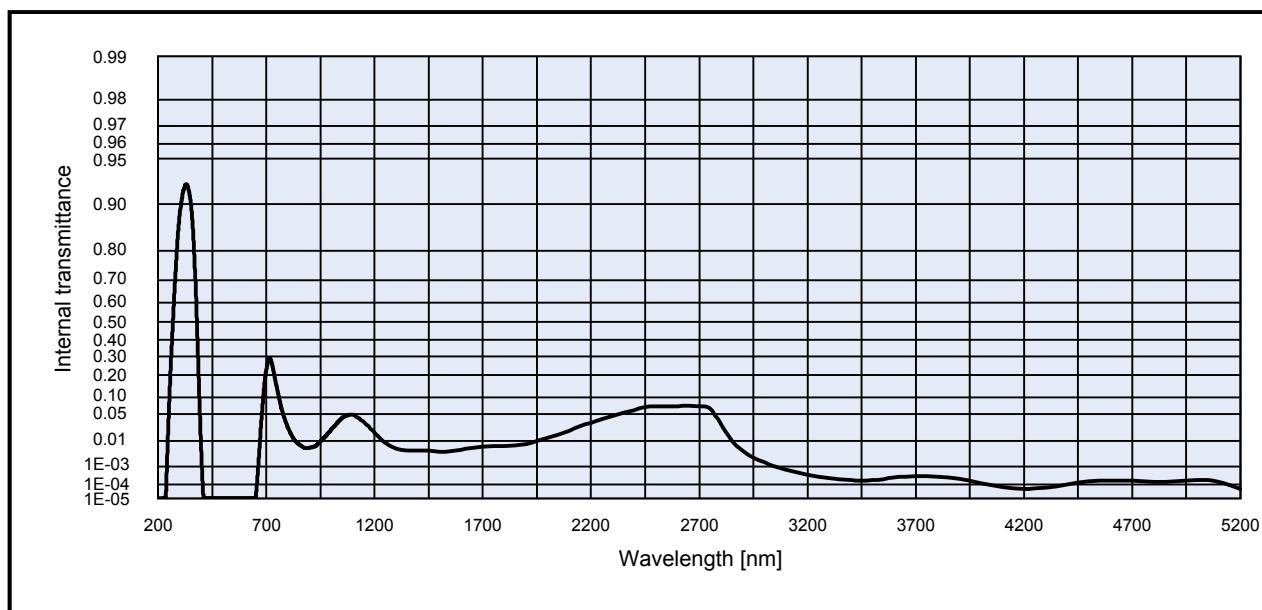
Thermal expansion	
$\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	7.8
$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	9.0
$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]	

Temperature coefficient	
T_k [nm/°C]	

Notes
Ionically colored glass
Band pass filter
[!]
Long-term changes in the polished surface are possible
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				x				x			
y				y				y			
Y				Y				Y			
λ_d [nm]				λ_d [nm]				λ_d [nm]			
P_e				P_e				P_e			





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	< 1.0E-05	800	2.4E-02	1100	4.9E-02	2200	3.2E-02	3700	3.2E-04
210	< 1.0E-05	510	< 1.0E-05	810	1.8E-02	1110	4.6E-02	2250	3.8E-02	3750	3.2E-04
220	< 1.0E-05	520	< 1.0E-05	820	1.4E-02	1120	4.3E-02	2300	4.6E-02	3800	3.0E-04
230	< 1.0E-05	530	< 1.0E-05	830	1.1E-02	1130	3.9E-02	2350	5.3E-02	3850	2.6E-04
240	6.1E-04	540	< 1.0E-05	840	9.1E-03	1140	3.7E-02	2400	6.0E-02	3900	2.2E-04
250	5.6E-02	550	< 1.0E-05	850	8.0E-03	1150	3.3E-02	2450	6.8E-02	3950	1.7E-04
260	2.8E-01	560	< 1.0E-05	860	7.0E-03	1160	3.0E-02	2500	7.0E-02	4000	1.2E-04
270	5.2E-01	570	< 1.0E-05	870	6.3E-03	1170	2.7E-02	2550	7.0E-02	4050	9.0E-05
280	7.1E-01	580	< 1.0E-05	880	5.9E-03	1180	2.4E-02	2600	7.0E-02	4100	6.7E-05
290	8.3E-01	590	< 1.0E-05	890	5.8E-03	1190	2.1E-02	2650	7.2E-02	4150	5.7E-05
300	8.8E-01	600	< 1.0E-05	900	5.9E-03	1200	1.8E-02	2700	7.0E-02	4200	5.2E-05
310	9.1E-01	610	< 1.0E-05	910	6.1E-03	1250	8.8E-03	2750	6.4E-02	4250	5.4E-05
320	9.2E-01	620	< 1.0E-05	920	6.4E-03	1300	5.5E-03	2800	3.0E-02	4300	6.1E-05
330	9.3E-01	630	< 1.0E-05	930	7.0E-03	1350	4.6E-03	2850	1.1E-02	4350	7.6E-05
340	9.2E-01	640	< 1.0E-05	940	8.1E-03	1400	4.8E-03	2900	4.8E-03	4400	1.0E-04
350	9.1E-01	650	< 1.0E-05	950	9.4E-03	1450	4.7E-03	2950	2.5E-03	4450	1.4E-04
360	8.7E-01	660	3.6E-04	960	1.1E-02	1500	4.3E-03	3000	1.6E-03	4500	1.7E-04
370	7.6E-01	670	8.1E-03	970	1.3E-02	1550	4.3E-03	3050	1.0E-03	4550	1.7E-04
380	4.8E-01	680	5.0E-02	980	1.5E-02	1600	5.0E-03	3100	7.0E-04	4600	1.8E-04
390	1.2E-01	690	1.4E-01	990	1.8E-02	1650	6.0E-03	3150	5.0E-04	4650	1.7E-04
400	4.0E-03	700	2.2E-01	1000	2.1E-02	1700	6.6E-03	3200	3.7E-04	4700	1.7E-04
410	1.0E-05	710	2.8E-01	1010	2.5E-02	1750	6.7E-03	3250	2.9E-04	4750	1.6E-04
420	< 1.0E-05	720	2.8E-01	1020	2.8E-02	1800	6.8E-03	3300	2.4E-04	4800	1.5E-04
430	< 1.0E-05	730	2.4E-01	1030	3.3E-02	1850	7.2E-03	3350	2.1E-04	4850	1.5E-04
440	< 1.0E-05	740	1.9E-01	1040	3.7E-02	1900	8.0E-03	3400	1.8E-04	4900	1.6E-04
450	< 1.0E-05	750	1.4E-01	1050	4.1E-02	1950	1.0E-02	3450	1.8E-04	4950	1.7E-04
460	< 1.0E-05	760	9.7E-02	1060	4.4E-02	2000	1.2E-02	3500	1.9E-04	5000	1.9E-04
470	< 1.0E-05	770	6.7E-02	1070	4.6E-02	2050	1.6E-02	3550	2.1E-04	5050	1.9E-04
480	< 1.0E-05	780	4.7E-02	1080	4.8E-02	2100	2.0E-02	3600	2.6E-04	5100	1.4E-04
490	< 1.0E-05	790	3.3E-02	1090	4.8E-02	2150	2.6E-02	3650	3.0E-04	5150	9.4E-05