

BG60

Reflection factor	
P_d	0,914

Reference thickness	
d [mm]	1

Spectral values guaranteed	
τ_i (405 nm) \geq	0,78
τ_i (514 nm) \geq	0,91
τ_i (633 nm) \geq	0,10
τ_i (694 nm) \leq	0,010
τ_i (1060 nm) \leq	0,0015

Refractive index n		
λ [nm]	Element	n
486,1	H	1,54
587,6	He	1,53

Density	
ρ [g/cm ³]	2,83

Bubble content	
Bubble class	2

Chemical resistance	
FR class	1
SR class	52.3
AR class	3.3

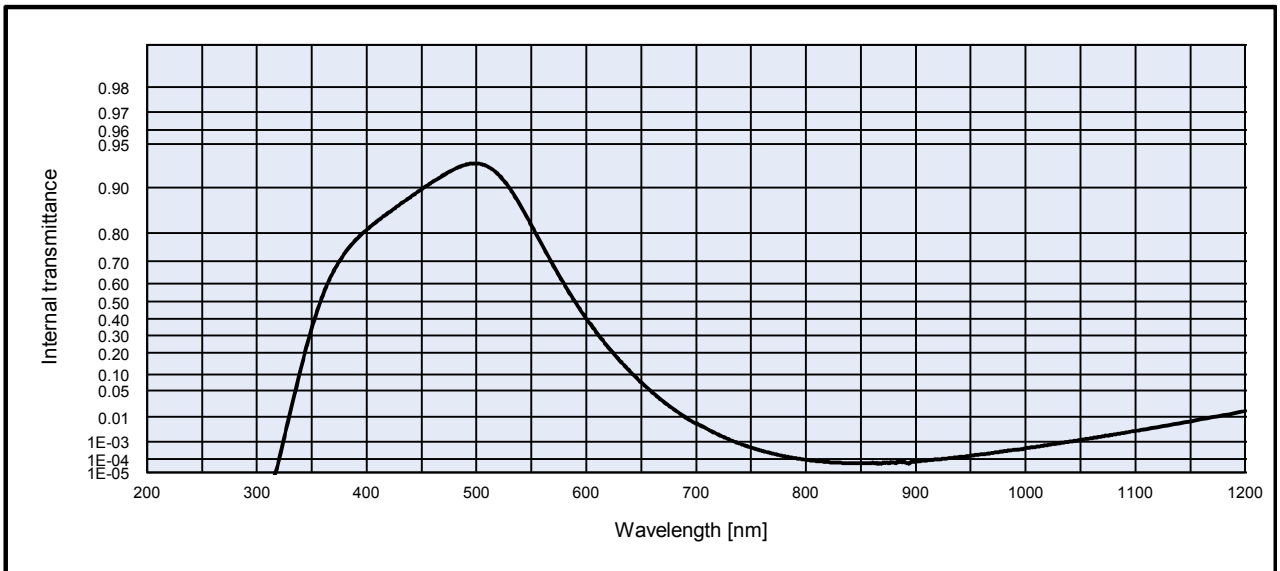
Transformation temperature	
T_g [°C]	411

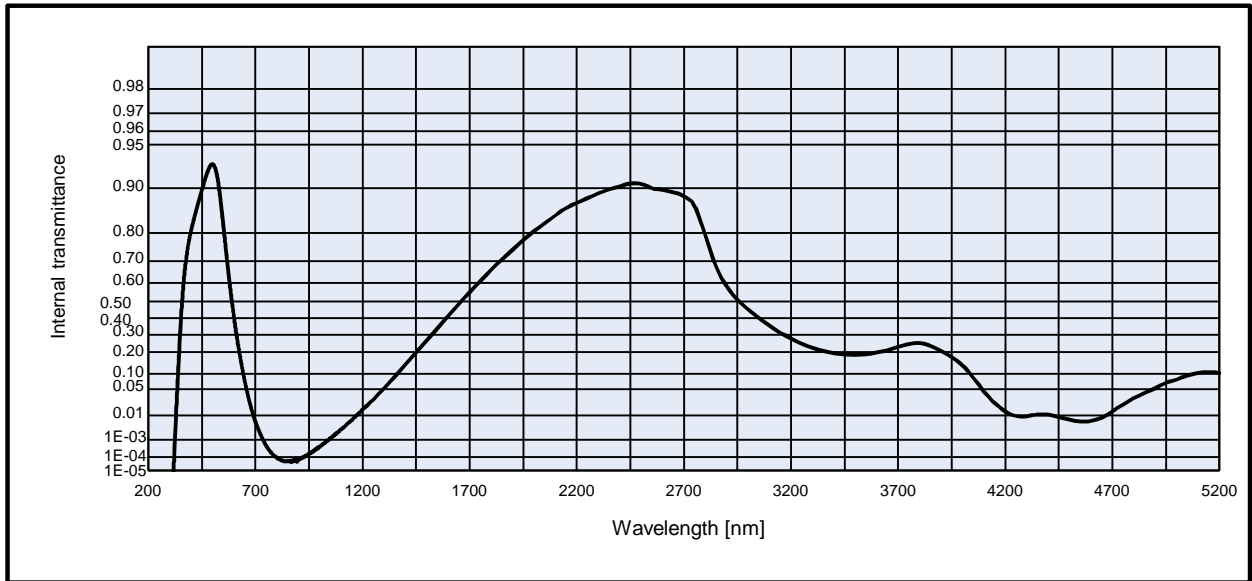
Thermal expansion	
$\alpha_{30/470^\circ\text{C}}$ [10 ⁻⁶ /K]	
$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	13,9
$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]	

Temperature coefficient	
T_k [nm/°C]	-

Notes	
Ionically colored glass	
Band pass filter / short pass filter	
Color compensating filter / IR cut filter	
$\tau_{50\%}$ (thickness=0.3mm) @ 633 nm	
Knoop hardness HK (0.1/20) = 362	
[!]	
Long-term changes in the polished surface are possible under some circumstances	
no visible surface damage after 500 h of humidity test 85 °C / 85 % rh	
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 $d = 1$ 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	< 1,0E-05	500	9,3E-01	800	8,7E-05	1100	3,0E-03	2200	8,7E-01	3700	2,3E-01
210	< 1,0E-05	510	9,3E-01	810	7,2E-05	1110	3,6E-03	2250	8,8E-01	3750	2,5E-01
220	< 1,0E-05	520	9,2E-01	820	6,1E-05	1120	4,2E-03	2300	8,9E-01	3800	2,5E-01
230	< 1,0E-05	530	9,0E-01	830	5,5E-05	1130	5,1E-03	2350	9,0E-01	3850	2,3E-01
240	< 1,0E-05	540	8,7E-01	840	5,2E-05	1140	6,0E-03	2400	9,0E-01	3900	2,1E-01
250	< 1,0E-05	550	8,2E-01	850	5,0E-05	1150	7,0E-03	2450	9,1E-01	3950	1,7E-01
260	< 1,0E-05	560	7,6E-01	860	5,2E-05	1160	8,3E-03	2500	9,1E-01	4000	1,4E-01
270	< 1,0E-05	570	6,8E-01	870	5,7E-05	1170	9,7E-03	2550	9,0E-01	4050	8,5E-02
280	< 1,0E-05	580	5,9E-01	880	5,7E-05	1180	1,1E-02	2600	9,0E-01	4100	4,6E-02
290	< 1,0E-05	590	5,0E-01	890	6,3E-05	1190	1,3E-02	2650	8,9E-01	4150	2,4E-02
300	< 1,0E-05	600	4,0E-01	900	6,9E-05	1200	1,5E-02	2700	8,9E-01	4200	1,3E-02
310	< 1,0E-05	610	3,1E-01	910	7,7E-05	1250	2,9E-02	2750	8,7E-01	4250	9,4E-03
320	8,0E-05	620	2,3E-01	920	9,4E-05	1300	5,3E-02	2800	7,9E-01	4300	9,4E-03
330	1,3E-02	630	1,6E-01	930	1,1E-04	1350	9,0E-02	2850	6,8E-01	4350	1,1E-02
340	1,2E-01	640	1,1E-01	940	1,3E-04	1400	1,4E-01	2900	5,8E-01	4400	1,0E-02
350	3,4E-01	650	7,4E-02	950	1,6E-04	1450	2,0E-01	2950	5,1E-01	4450	8,8E-03
360	5,4E-01	660	4,6E-02	960	1,9E-04	1500	2,7E-01	3000	4,5E-01	4500	7,1E-03
370	6,6E-01	670	2,8E-02	970	2,4E-04	1550	3,4E-01	3050	4,0E-01	4550	6,2E-03
380	7,3E-01	680	1,7E-02	980	3,0E-04	1600	4,2E-01	3100	3,5E-01	4600	6,3E-03
390	7,8E-01	690	9,8E-03	990	3,7E-04	1650	4,9E-01	3150	3,1E-01	4650	8,3E-03
400	8,1E-01	700	5,7E-03	1000	4,4E-04	1700	5,5E-01	3200	2,8E-01	4700	1,3E-02
410	8,3E-01	710	3,6E-03	1010	5,4E-04	1750	6,1E-01	3250	2,5E-01	4750	2,1E-02
420	8,5E-01	720	2,1E-03	1020	6,6E-04	1800	6,6E-01	3300	2,2E-01	4800	3,1E-02
430	8,7E-01	730	1,3E-03	1030	7,9E-04	1850	7,1E-01	3350	2,1E-01	4850	4,2E-02
440	8,8E-01	740	7,6E-04	1040	9,9E-04	1900	7,5E-01	3400	1,9E-01	4900	5,3E-02
450	9,0E-01	750	4,8E-04	1050	1,2E-03	1950	7,8E-01	3450	1,9E-01	4950	6,8E-02
460	9,1E-01	760	3,1E-04	1060	1,4E-03	2000	8,1E-01	3500	1,9E-01	5000	7,9E-02
470	9,2E-01	770	2,1E-04	1070	1,7E-03	2050	8,3E-01	3550	1,9E-01	5050	9,3E-02
480	9,3E-01	780	1,5E-04	1080	2,1E-03	2100	8,5E-01	3600	2,0E-01	5100	1,0E-01
490	9,3E-01	790	1,1E-04	1090	2,5E-03	2150	8,6E-01	3650	2,1E-01	5150	1,1E-01