

## BG36

Reflection factor	
$P_d$	0.877

Reference thickness	
d [mm]	1

Spectral values guaranteed	

Refractive Index n	
$n_d$ (587.6 nm) = 1.690	

Density	
$\rho$ [g/cm <sup>3</sup> ]	3.59

Bubble content	
Bubble class	3

Chemical Resistance	
FR class	1.0
SR class	52.2
AR class	1.2

Transformation temperature	
$T_g$ [°C]	657

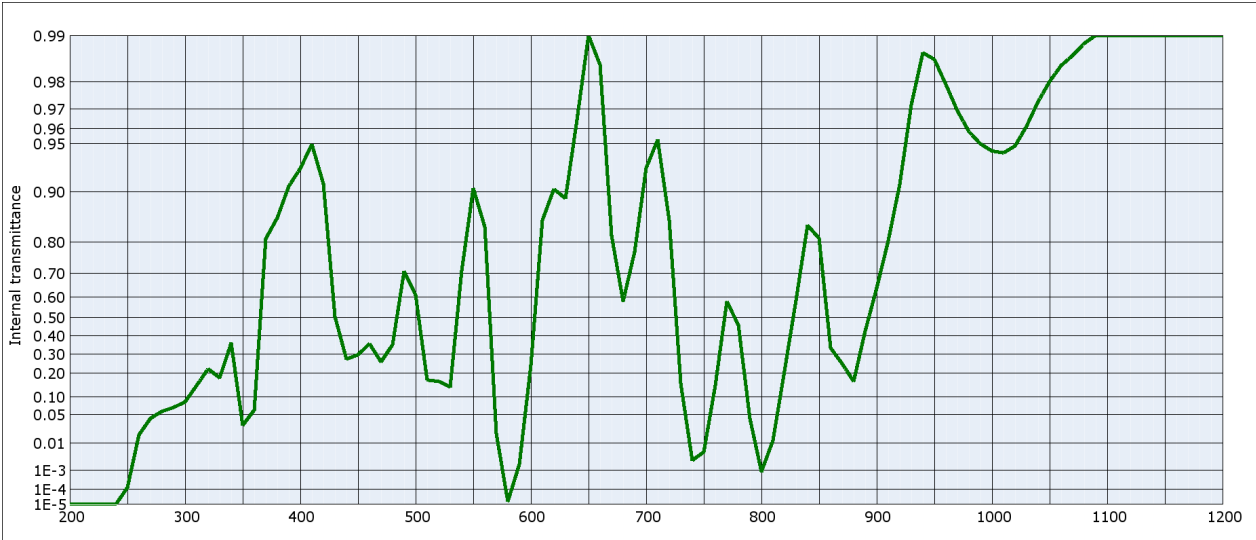
Thermal expansion	
$\alpha_{30/+70^\circ\text{C}}$ [10 <sup>-6</sup> /K]	6.1
$\alpha_{20/300^\circ\text{C}}$ [10 <sup>-6</sup> /K]	7.2
$\alpha_{20/200^\circ\text{C}}$ [10 <sup>-6</sup> /K]	

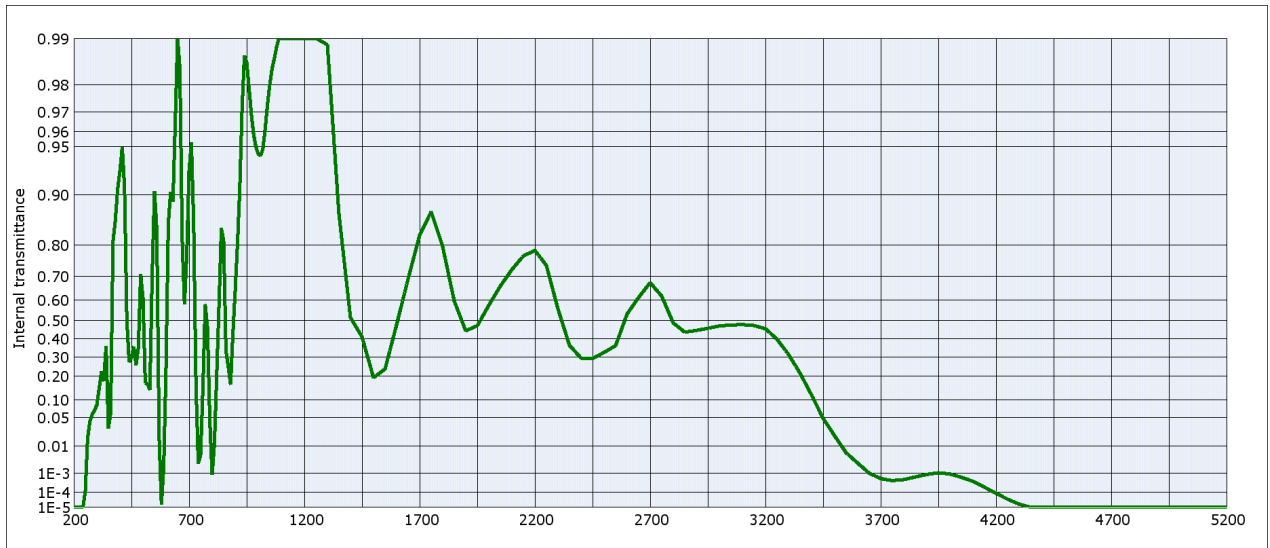
Temperature coefficient	
$T_K$ [nm/°C]	

Notes
Ionically colored glass
Multiband filter


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 <sub>c</sub> = 6504 K)				
d [mm]	1	2	3	d [mm]	1	2	3	d [mm]	1	2	3	
x	0.495	0.534	0.557	x	0.469	0.512	0.537	x	0.344	0.395	0.429	
y	0.387	0.390	0.389	y	0.382	0.390	0.391	y	0.327	0.356	0.370	
Y	41	32	27	Y	41	31	26	Y	39	29	23	
$\lambda_d$ [nm]	628	600	599	$\lambda_d$ [nm]	629	599	597	$\lambda_d$ [nm]	622	591	590	
$P_e$	0.19	0.48	0.63	$P_e$	0.16	0.44	0.59	$P_e$	0.08	0.30	0.44	





**Internal transmittance  $\tau_i$  at reference thickness  $d = 1$  mm**  
**The internal transmittance values, tabulated and graphically represented, are reference values only**

$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$	$\lambda$ [nm]	$\tau_i$
200	$< 10^{-5}$	500	0.608	800	$8.6 \cdot 10^{-4}$	1100	0.995	2200	0.784	3700	$5.6 \cdot 10^{-4}$
210	$< 10^{-5}$	510	0.168	810	$1.2 \cdot 10^{-2}$	1110	0.996	2250	0.737	3750	$4.5 \cdot 10^{-4}$
220	$< 10^{-5}$	520	0.162	820	0.211	1120	0.997	2300	0.557	3800	$5.0 \cdot 10^{-4}$
230	$< 10^{-5}$	530	0.139	830	0.584	1130	0.997	2350	0.364	3850	$6.8 \cdot 10^{-4}$
240	$< 10^{-5}$	540	0.708	840	0.840	1140	0.998	2400	0.294	3900	$8.9 \cdot 10^{-4}$
250	$1.3 \cdot 10^{-4}$	550	0.905	850	0.809	1150	0.998	2450	0.291	3950	$1.1 \cdot 10^{-3}$
260	$1.7 \cdot 10^{-2}$	560	0.837	860	0.333	1160	0.998	2500	0.325	4000	$9.3 \cdot 10^{-4}$
270	$4.2 \cdot 10^{-2}$	570	$1.9 \cdot 10^{-2}$	870	0.248	1170	0.997	2550	0.362	4050	$6.5 \cdot 10^{-4}$
280	$5.8 \cdot 10^{-2}$	580	$1.6 \cdot 10^{-5}$	880	0.163	1180	0.997	2600	0.532	4100	$4.1 \cdot 10^{-4}$
290	$6.8 \cdot 10^{-2}$	590	$1.8 \cdot 10^{-3}$	890	0.426	1190	0.996	2650	0.611	4150	$2.0 \cdot 10^{-4}$
300	$8.4 \cdot 10^{-2}$	600	0.241	900	0.639	1200	0.995	2700	0.674	4200	$8.9 \cdot 10^{-5}$
310	0.145	610	0.851	910	0.802	1250	0.995	2750	0.617	4250	$3.7 \cdot 10^{-5}$
320	0.222	620	0.904	920	0.910	1300	0.989	2800	0.486	4300	$1.7 \cdot 10^{-5}$
330	0.178	630	0.890	930	0.972	1350	0.869	2850	0.436	4350	$< 10^{-5}$
340	0.360	640	0.965	940	0.987	1400	0.513	2900	0.446	4400	$< 10^{-5}$
350	$3.0 \cdot 10^{-2}$	650	0.996	950	0.986	1450	0.411	2950	0.457	4450	$< 10^{-5}$
360	$6.1 \cdot 10^{-2}$	660	0.984	960	0.979	1500	0.193	3000	0.469	4500	$< 10^{-5}$
370	0.808	670	0.816	970	0.969	1550	0.236	3050	0.475	4550	$< 10^{-5}$
380	0.856	680	0.579	980	0.958	1600	0.475	3100	0.477	4600	$< 10^{-5}$
390	0.908	690	0.771	990	0.950	1650	0.689	3150	0.472	4650	$< 10^{-5}$
400	0.929	700	0.929	1000	0.945	1700	0.824	3200	0.455	4700	$< 10^{-5}$
410	0.950	710	0.953	1010	0.943	1750	0.873	3250	0.398	4750	$< 10^{-5}$
420	0.911	720	0.850	1020	0.948	1800	0.795	3300	0.314	4800	$< 10^{-5}$
430	0.503	730	0.153	1030	0.961	1850	0.595	3350	0.215	4850	$< 10^{-5}$
440	0.272	740	$2.6 \cdot 10^{-3}$	1040	0.973	1900	0.443	3400	0.119	4900	$< 10^{-5}$
450	0.296	750	$5.3 \cdot 10^{-3}$	1050	0.980	1950	0.471	3450	$4.9 \cdot 10^{-2}$	4950	$< 10^{-5}$
460	0.356	760	0.146	1060	0.984	2000	0.574	3500	$2.0 \cdot 10^{-2}$	5000	$< 10^{-5}$
470	0.257	770	0.578	1070	0.987	2050	0.660	3550	$6.3 \cdot 10^{-3}$	5050	$< 10^{-5}$
480	0.351	780	0.459	1080	0.989	2100	0.723	3600	$2.7 \cdot 10^{-3}$	5100	$< 10^{-5}$
490	0.706	790	$4.2 \cdot 10^{-2}$	1090	0.992	2150	0.768	3650	$1.0 \cdot 10^{-3}$	5150	$< 10^{-5}$