

## KG5

Reflection factor	
$P_d$	0.92

Reference thickness	
d [mm]	2

Spectral values guaranteed	
$\tau_i$ (365 nm)	$\geq 0.80$
$\tau_i$ (500 nm)	$\geq 0.86$
$\tau_i$ (600 nm)	$\geq 0.80$
$\tau_i$ (700 nm)	$\leq 0.43$
$\tau_i$ (800 nm)	$\leq 0.09$
$\tau_i$ (900 nm)	$\leq 0.008$
$\tau_i$ (1060 nm)	$\leq 1 \cdot 10^{-4}$
$\tau_i$ (2200 nm)	$\leq 0.001$

Refractive index n		
$\lambda$ [nm]	Element	n
365	Hg	1.53
587.6	He	1.51

Density	
$\rho$ [g/cm <sup>3</sup> ]	2.53

Bubble content	
Bubble class	3

Chemical resistance	
FR class	0
SR class	3.0
AR class	4.0

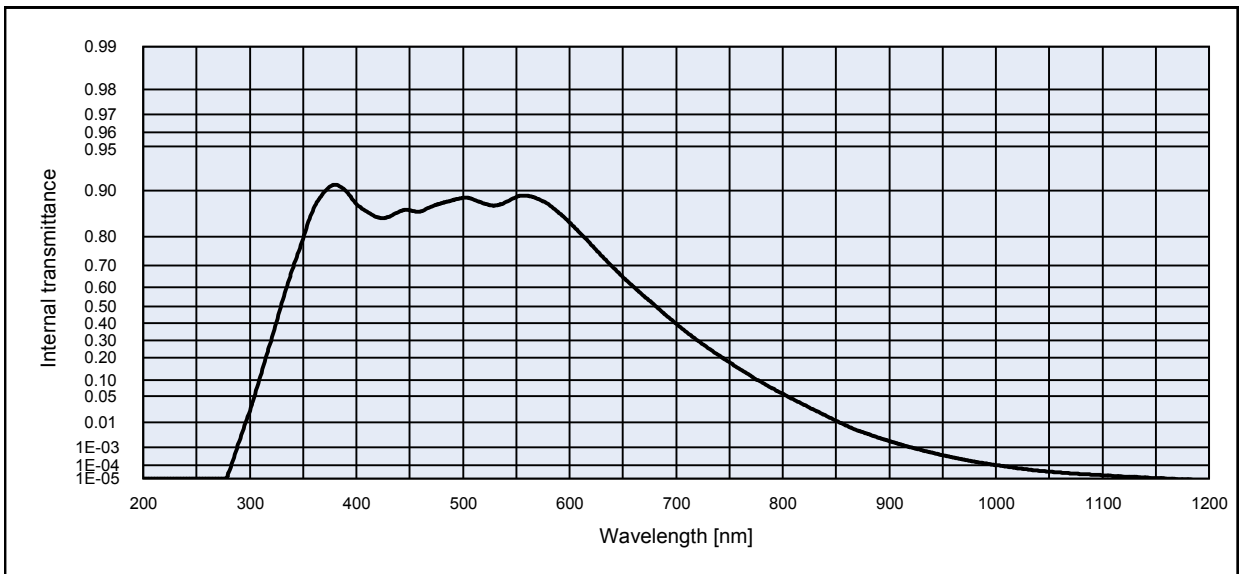
Transformation temperature	
$T_g$ [°C]	565

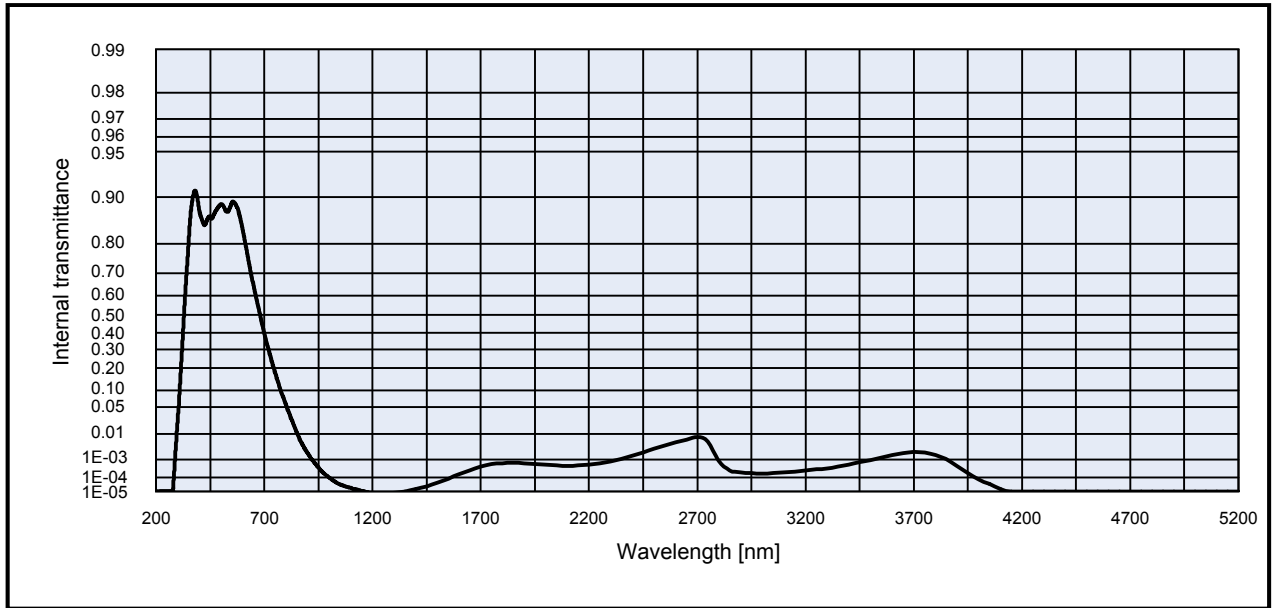
Thermal expansion	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/\text{K}$ ]	5.4
$\alpha_{20/300^\circ\text{C}}$ [ $10^{-6}/\text{K}$ ]	6.2
$\alpha_{20/200^\circ\text{C}}$ [ $10^{-6}/\text{K}$ ]	

Temperature coefficient	
$T_k$ [nm/°C]	

Notes
Ionically colored glass
Short pass filter
Heat protection filter
[!]
Long-term changes in the polished surface are possible under some circumstances
V
Transmission changes are possible under the action of intense ultraviolet radiation
<b>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".</b>

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	0.440	0.434	0.427	x	0.416	0.410	0.404	x	0.308	0.304	0.300
y	0.411	0.415	0.418	y	0.402	0.406	0.409	y	0.331	0.332	0.334
Y	85	78	72	Y	85	78	72	Y	85	79	74
$\lambda_d$ [nm]	504	505	505	$\lambda_d$ [nm]	503	503	503	$\lambda_d$ [nm]	496	496	496
$P_e$	0.02	0.03	0.05	$P_e$	0.02	0.03	0.05	$P_e$	0.02	0.03	0.04





**Internal transmittance  $\tau_i$  at reference thickness  $d$  [mm] = 2**  
**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	< 1.0E-05	500	8.9E-01	800	5.6E-02	1100	1.9E-05	2200	5.4E-04	3700	2.2E-03
210	< 1.0E-05	510	8.9E-01	810	4.2E-02	1110	1.7E-05	2250	6.5E-04	3750	2.0E-03
220	< 1.0E-05	520	8.8E-01	820	3.2E-02	1120	1.5E-05	2300	8.3E-04	3800	1.6E-03
230	< 1.0E-05	530	8.7E-01	830	2.3E-02	1130	1.4E-05	2350	1.1E-03	3850	1.0E-03
240	< 1.0E-05	540	8.8E-01	840	1.6E-02	1140	1.2E-05	2400	1.5E-03	3900	4.6E-04
250	< 1.0E-05	550	8.9E-01	850	1.1E-02	1150	1.1E-05	2450	2.1E-03	3950	1.9E-04
260	< 1.0E-05	560	8.9E-01	860	7.7E-03	1160	1.0E-05	2500	2.9E-03	4000	7.4E-05
270	< 1.0E-05	570	8.9E-01	870	5.3E-03	1170	< 1.0E-05	2550	4.1E-03	4050	3.7E-05
280	2.8E-05	580	8.8E-01	880	3.8E-03	1180	< 1.0E-05	2600	5.3E-03	4100	1.6E-05
290	1.9E-03	590	8.6E-01	890	2.7E-03	1190	< 1.0E-05	2650	6.6E-03	4150	< 1.0E-05
300	2.2E-02	600	8.4E-01	900	2.0E-03	1200	< 1.0E-05	2700	7.9E-03	4200	< 1.0E-05
310	1.1E-01	610	8.1E-01	910	1.4E-03	1250	< 1.0E-05	2750	5.6E-03	4250	< 1.0E-05
320	3.0E-01	620	7.8E-01	920	1.0E-03	1300	< 1.0E-05	2800	8.9E-04	4300	< 1.0E-05
330	5.2E-01	630	7.4E-01	930	7.3E-04	1350	1.0E-05	2850	2.8E-04	4350	< 1.0E-05
340	6.8E-01	640	7.0E-01	940	5.3E-04	1400	1.5E-05	2900	2.0E-04	4400	< 1.0E-05
350	8.0E-01	650	6.5E-01	950	3.9E-04	1450	2.6E-05	2950	1.9E-04	4450	< 1.0E-05
360	8.7E-01	660	6.0E-01	960	2.9E-04	1500	4.5E-05	3000	1.8E-04	4500	< 1.0E-05
370	9.0E-01	670	5.6E-01	970	2.2E-04	1550	8.5E-05	3050	1.9E-04	4550	< 1.0E-05
380	9.1E-01	680	5.1E-01	980	1.6E-04	1600	1.5E-04	3100	2.1E-04	4600	< 1.0E-05
390	9.0E-01	690	4.5E-01	990	1.3E-04	1650	2.7E-04	3150	2.3E-04	4650	< 1.0E-05
400	8.8E-01	700	4.0E-01	1000	9.9E-05	1700	4.4E-04	3200	2.7E-04	4700	< 1.0E-05
410	8.6E-01	710	3.5E-01	1010	7.8E-05	1750	5.8E-04	3250	3.1E-04	4750	< 1.0E-05
420	8.5E-01	720	3.0E-01	1020	6.2E-05	1800	6.6E-04	3300	3.6E-04	4800	< 1.0E-05
430	8.5E-01	730	2.6E-01	1030	4.9E-05	1850	6.9E-04	3350	4.3E-04	4850	< 1.0E-05
440	8.6E-01	740	2.1E-01	1040	4.1E-05	1900	6.5E-04	3400	5.6E-04	4900	< 1.0E-05
450	8.7E-01	750	1.8E-01	1050	3.5E-05	1950	6.0E-04	3450	7.3E-04	4950	< 1.0E-05
460	8.6E-01	760	1.5E-01	1060	3.0E-05	2000	5.6E-04	3500	9.3E-04	5000	< 1.0E-05
470	8.7E-01	770	1.2E-01	1070	2.6E-05	2050	5.1E-04	3550	1.2E-03	5050	< 1.0E-05
480	8.8E-01	780	9.2E-02	1080	2.3E-05	2100	4.9E-04	3600	1.6E-03	5100	< 1.0E-05
490	8.8E-01	790	7.2E-02	1090	2.1E-05	2150	4.9E-04	3650	2.0E-03	5150	< 1.0E-05