

## UG1

Reflection factor	
$P_d$	0.91

Reference thickness	
d [mm]	1

Spectral values guaranteed		
$\tau_i$ (365 nm)	$\geq$	0.80
$\tau_i$ (405 nm)	$\leq$	0.10
$\tau_i$ (694 nm)	$\leq$	0.06
$\tau_i$ (750 nm)	$\leq$	0.53

Refractive index n		
$\lambda$ [nm]	Element	n
365	Hg	1.57
587.6	He	1.54

Density	
$\rho$ [g/cm <sup>3</sup> ]	2.77

Bubble content	
Bubble class	1

Chemical resistance	
FR class	0
SR class	1.0
AR class	1.0

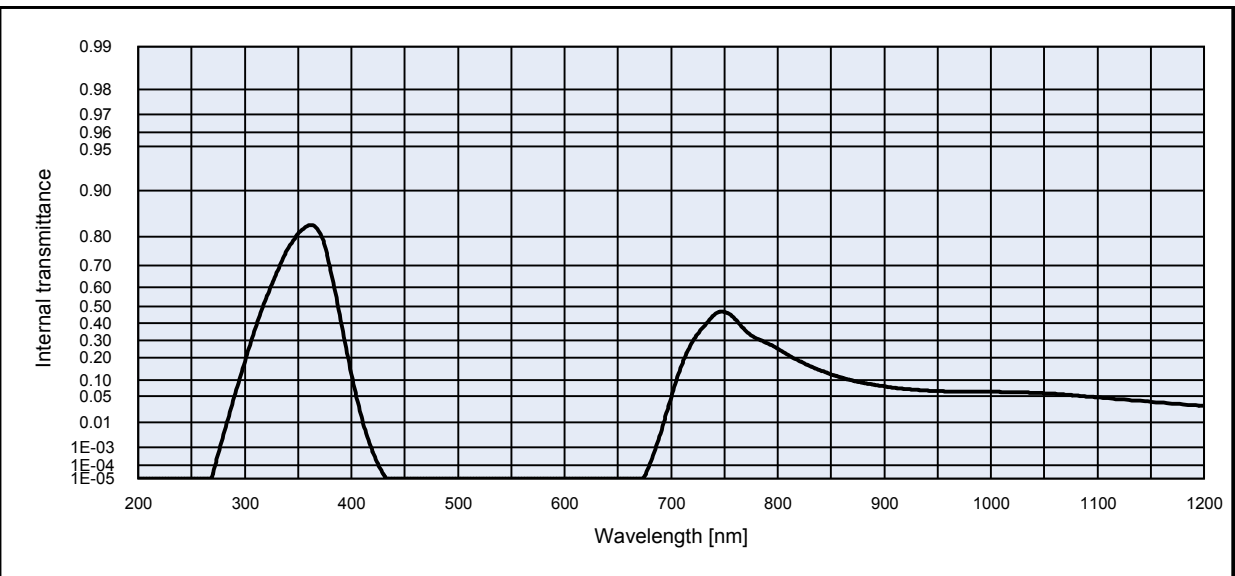
Transformation temperature	
$T_g$ [°C]	603

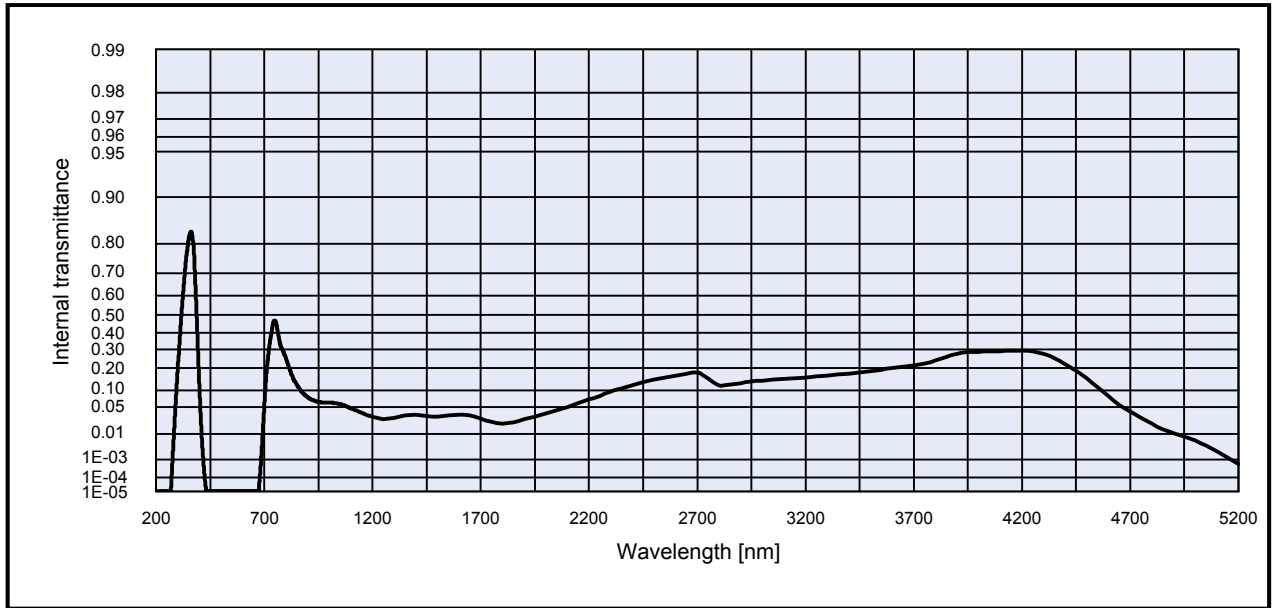
Thermal expansion	
$\alpha_{-30/+70^\circ\text{C}}$ [10 <sup>-6</sup> /K]	7.9
$\alpha_{20/300^\circ\text{C}}$ [10 <sup>-6</sup> /K]	8.9
$\alpha_{20/200^\circ\text{C}}$ [10 <sup>-6</sup> /K]	

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 <sub>c</sub> = 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			
$\lambda_d$ [nm]				$\lambda_d$ [nm]				$\lambda_d$ [nm]			
$P_e$				$P_e$				$P_e$			





**Internal transmittance  $\tau_i$  at reference thickness  $d$  [mm] = 1**  
**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	< 1.0E-05	800	2.5E-01	1100	4.7E-02	2200	7.0E-02	3700	2.1E-01
210	< 1.0E-05	510	< 1.0E-05	810	2.2E-01	1110	4.5E-02	2250	8.1E-02	3750	2.2E-01
220	< 1.0E-05	520	< 1.0E-05	820	1.9E-01	1120	4.3E-02	2300	9.5E-02	3800	2.4E-01
230	< 1.0E-05	530	< 1.0E-05	830	1.6E-01	1130	4.1E-02	2350	1.1E-01	3850	2.6E-01
240	< 1.0E-05	540	< 1.0E-05	840	1.4E-01	1140	3.9E-02	2400	1.2E-01	3900	2.8E-01
250	< 1.0E-05	550	< 1.0E-05	850	1.2E-01	1150	3.7E-02	2450	1.3E-01	3950	2.9E-01
260	< 1.0E-05	560	< 1.0E-05	860	1.1E-01	1160	3.6E-02	2500	1.4E-01	4000	2.9E-01
270	2.5E-05	570	< 1.0E-05	870	9.8E-02	1170	3.4E-02	2550	1.5E-01	4050	2.9E-01
280	3.7E-03	580	< 1.0E-05	880	8.9E-02	1180	3.2E-02	2600	1.6E-01	4100	2.9E-01
290	4.8E-02	590	< 1.0E-05	890	8.3E-02	1190	3.1E-02	2650	1.7E-01	4150	2.9E-01
300	1.8E-01	600	< 1.0E-05	900	7.8E-02	1200	3.0E-02	2700	1.8E-01	4200	2.9E-01
310	3.7E-01	610	< 1.0E-05	910	7.3E-02	1250	2.6E-02	2750	1.5E-01	4250	2.9E-01
320	5.4E-01	620	< 1.0E-05	920	6.9E-02	1300	2.9E-02	2800	1.2E-01	4300	2.8E-01
330	6.7E-01	630	< 1.0E-05	930	6.7E-02	1350	3.2E-02	2850	1.2E-01	4350	2.5E-01
340	7.6E-01	640	< 1.0E-05	940	6.5E-02	1400	3.3E-02	2900	1.3E-01	4400	2.2E-01
350	8.1E-01	650	< 1.0E-05	950	6.3E-02	1450	3.1E-02	2950	1.4E-01	4450	1.9E-01
360	8.3E-01	660	< 1.0E-05	960	6.2E-02	1500	3.0E-02	3000	1.4E-01	4500	1.5E-01
370	8.1E-01	670	< 1.0E-05	970	6.1E-02	1550	3.2E-02	3050	1.4E-01	4550	1.1E-01
380	6.9E-01	680	1.2E-04	980	6.1E-02	1600	3.4E-02	3100	1.5E-01	4600	8.0E-02
390	4.2E-01	690	4.0E-03	990	6.1E-02	1650	3.2E-02	3150	1.5E-01	4650	5.5E-02
400	1.2E-01	700	4.7E-02	1000	6.1E-02	1700	2.8E-02	3200	1.5E-01	4700	4.0E-02
410	1.3E-02	710	1.6E-01	1010	6.1E-02	1750	2.3E-02	3250	1.6E-01	4750	2.8E-02
420	6.1E-04	720	2.9E-01	1020	6.0E-02	1800	2.0E-02	3300	1.6E-01	4800	2.0E-02
430	2.3E-05	730	3.8E-01	1030	6.0E-02	1850	2.2E-02	3350	1.7E-01	4850	1.4E-02
440	< 1.0E-05	740	4.5E-01	1040	5.9E-02	1900	2.6E-02	3400	1.7E-01	4900	1.1E-02
450	< 1.0E-05	750	4.7E-01	1050	5.7E-02	1950	3.0E-02	3450	1.8E-01	4950	8.4E-03
460	< 1.0E-05	760	4.3E-01	1060	5.6E-02	2000	3.6E-02	3500	1.8E-01	5000	6.3E-03
470	< 1.0E-05	770	3.6E-01	1070	5.4E-02	2050	4.3E-02	3550	1.9E-01	5050	4.1E-03
480	< 1.0E-05	780	3.1E-01	1080	5.1E-02	2100	5.0E-02	3600	2.0E-01	5100	2.3E-03
490	< 1.0E-05	790	2.8E-01	1090	4.9E-02	2150	5.9E-02	3650	2.1E-01	5150	1.2E-03