

## OG570

Reflection factor	
$P_d$	0.92

Reference thickness	
d [mm]	3

Spectral values guaranteed	
$\lambda_c$ ( $\tau_i = 0.50$ ) [nm]	= 570 ± 6
$\lambda_s$ ( $\tau_{is} = 1 \cdot 10^{-5}$ ) [nm]	= 500
$\lambda_p$ ( $\tau_{ip} = 0.93$ ) [nm]	= 640

Refractive index n		
$\lambda$ [nm]	Element	n
587.6	He	1.51
852.1	Cs	1.51
1014	Hg	1.50

Density	
$\rho$ [g/cm <sup>3</sup> ]	2.56

Bubble content	
Bubble class	3

Chemical resistance	
FR class	0
SR class	1.0
AR class	1.0

Transformation temperature	
$T_g$ [°C]	510

Thermal expansion	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/\text{K}$ ]	7.9
$\alpha_{20/300^\circ\text{C}}$ [ $10^{-6}/\text{K}$ ]	9.0
$\alpha_{20/200^\circ\text{C}}$ [ $10^{-6}/\text{K}$ ]	

Temperature coefficient	
$T_k$ [nm/°C]	0.12

### Notes

Colloidally colored glass

Long pass filter

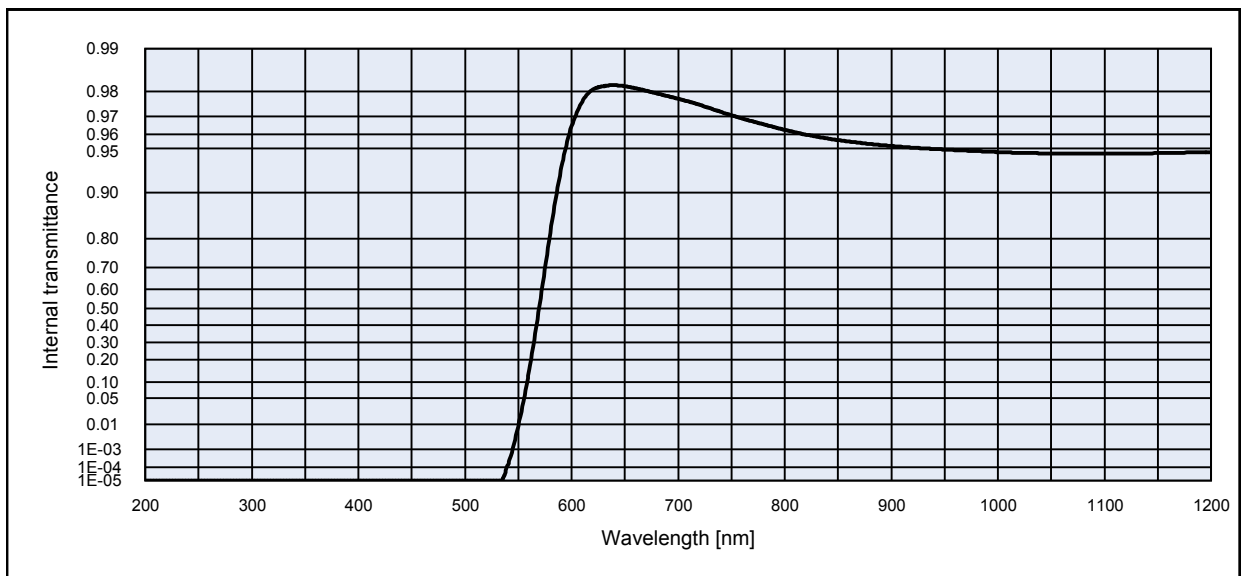
All data without tolerances are to be understood to be reference values. Guaranteed values are only those values listed in the section "Spectral values guaranteed".

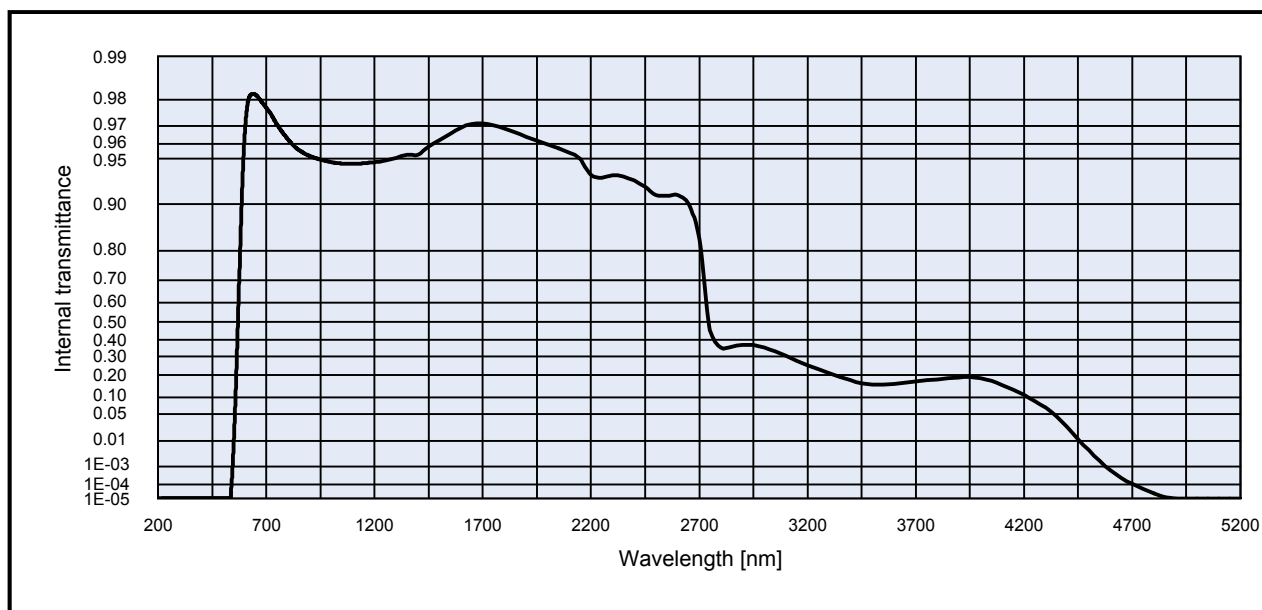
### Colorimetric evaluation

Illuminant	A ( Planck T = 2856 K )		
	1	2	3
$x$	0.600	0.619	0.627
$y$	0.394	0.380	0.372
Y	56	49	46
$\lambda_d$ [nm]	596	598	600
$P_e$	0.96	1.00	1.00

Illuminant	Planck T = 3200 K		
	1	2	3
$x$	0.595	0.616	0.624
$y$	0.398	0.384	0.375
Y	53	47	44
$\lambda_d$ [nm]	595	598	599
$P_e$	0.96	1.00	1.00

Illuminant	D65 ( $T_c = 6504$ K )		
	1	2	3
$x$	0.566	0.600	0.611
$y$	0.412	0.399	0.389
Y	43	36	33
$\lambda_d$ [nm]	591	595	597
$P_e$	0.94	1.00	1.00





**Internal transmittance  $\tau_i$  at reference thickness  $d$  [mm] = 3**  
**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	9.6E-01	1100	9.5E-01	2200	9.4E-01	3700	1.7E-01
210	< 1.0E-05	510	< 1.0E-05	810	9.6E-01	1110	9.5E-01	2250	9.3E-01	3750	1.7E-01
220	< 1.0E-05	520	< 1.0E-05	820	9.6E-01	1120	9.5E-01	2300	9.4E-01	3800	1.8E-01
230	< 1.0E-05	530	< 1.0E-05	830	9.6E-01	1130	9.5E-01	2350	9.3E-01	3850	1.8E-01
240	< 1.0E-05	540	1.3E-04	840	9.6E-01	1140	9.5E-01	2400	9.3E-01	3900	1.9E-01
250	< 1.0E-05	550	8.8E-03	850	9.6E-01	1150	9.5E-01	2450	9.2E-01	3950	1.9E-01
260	< 1.0E-05	560	1.4E-01	860	9.6E-01	1160	9.5E-01	2500	9.1E-01	4000	1.8E-01
270	< 1.0E-05	570	5.2E-01	870	9.5E-01	1170	9.5E-01	2550	9.1E-01	4050	1.7E-01
280	< 1.0E-05	580	8.2E-01	880	9.5E-01	1180	9.5E-01	2600	9.1E-01	4100	1.5E-01
290	< 1.0E-05	590	9.3E-01	890	9.5E-01	1190	9.5E-01	2650	9.0E-01	4150	1.3E-01
300	< 1.0E-05	600	9.6E-01	900	9.5E-01	1200	9.5E-01	2700	8.3E-01	4200	1.1E-01
310	< 1.0E-05	610	9.8E-01	910	9.5E-01	1250	9.5E-01	2750	4.6E-01	4250	8.8E-02
320	< 1.0E-05	620	9.8E-01	920	9.5E-01	1300	9.5E-01	2800	3.5E-01	4300	6.6E-02
330	< 1.0E-05	630	9.8E-01	930	9.5E-01	1350	9.5E-01	2850	3.6E-01	4350	4.4E-02
340	< 1.0E-05	640	9.8E-01	940	9.5E-01	1400	9.5E-01	2900	3.7E-01	4400	2.5E-02
350	< 1.0E-05	650	9.8E-01	950	9.5E-01	1450	9.6E-01	2950	3.7E-01	4450	1.1E-02
360	< 1.0E-05	660	9.8E-01	960	9.5E-01	1500	9.6E-01	3000	3.5E-01	4500	4.9E-03
370	< 1.0E-05	670	9.8E-01	970	9.5E-01	1550	9.7E-01	3050	3.3E-01	4550	1.9E-03
380	< 1.0E-05	680	9.8E-01	980	9.5E-01	1600	9.7E-01	3100	3.1E-01	4600	6.6E-04
390	< 1.0E-05	690	9.8E-01	990	9.5E-01	1650	9.7E-01	3150	2.8E-01	4650	2.5E-04
400	< 1.0E-05	700	9.8E-01	1000	9.5E-01	1700	9.7E-01	3200	2.5E-01	4700	1.1E-04
410	< 1.0E-05	710	9.8E-01	1010	9.5E-01	1750	9.7E-01	3250	2.3E-01	4750	5.3E-05
420	< 1.0E-05	720	9.8E-01	1020	9.5E-01	1800	9.7E-01	3300	2.1E-01	4800	2.5E-05
430	< 1.0E-05	730	9.7E-01	1030	9.5E-01	1850	9.7E-01	3350	1.9E-01	4850	1.2E-05
440	< 1.0E-05	740	9.7E-01	1040	9.5E-01	1900	9.6E-01	3400	1.7E-01	4900	< 1.0E-05
450	< 1.0E-05	750	9.7E-01	1050	9.5E-01	1950	9.6E-01	3450	1.6E-01	4950	< 1.0E-05
460	< 1.0E-05	760	9.7E-01	1060	9.5E-01	2000	9.6E-01	3500	1.5E-01	5000	< 1.0E-05
470	< 1.0E-05	770	9.7E-01	1070	9.5E-01	2050	9.6E-01	3550	1.5E-01	5050	< 1.0E-05
480	< 1.0E-05	780	9.7E-01	1080	9.5E-01	2100	9.5E-01	3600	1.6E-01	5100	< 1.0E-05
490	< 1.0E-05	790	9.6E-01	1090	9.5E-01	2150	9.5E-01	3650	1.6E-01	5150	< 1.0E-05