

# Data Sheet

## KG2

Reflection factor	
P <sub>d</sub>	0.921

Reference thickness	
d [mm]	2

Spectral values guaranteed		
$\tau_i$ (365nm)	≥	0.93
$\tau_i$ (500nm)	≥	0.94
$\tau_i$ (600nm)	≥	0.92
$\tau_i$ (700nm)	≤	0.83
$\tau_i$ (800nm)	≤	0.55
$\tau_i$ (900nm)	≤	0.28
$\tau_i$ (1060nm)	≤	0.12
$\tau_i$ (2200nm)	≤	0.2

Refractive Index n	
n <sub>i</sub> (365.0 nm) =	1.530
n <sub>d</sub> (587.6 nm) =	1.510

Density	
$\rho$ [g/cm <sup>3</sup> ]	2.52

Bubble content	
Bubble class	3

Chemical Resistance	
FR class	0
SR class	2.0
AR class	3.0

Transformation temperature	
T <sub>g</sub> [°C]	605

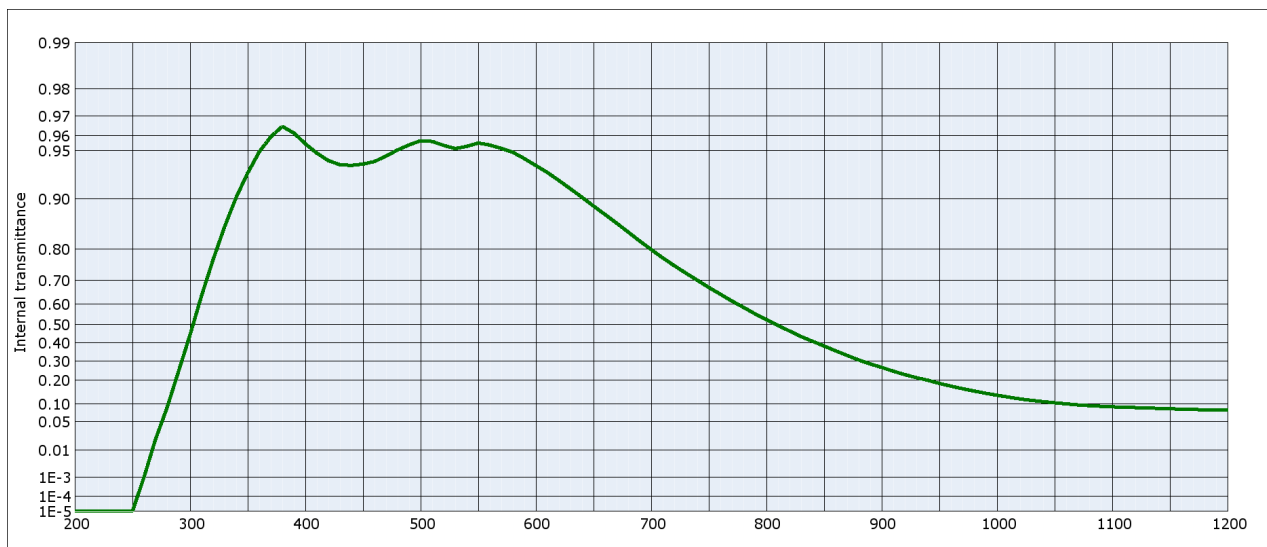
Thermal expansion	
$\alpha_{30/+70^{\circ}\text{C}}$ [10 <sup>-6</sup> /K]	5.4
$\alpha_{20/300^{\circ}\text{C}}$ [10 <sup>-6</sup> /K]	6.3
$\alpha_{20/200^{\circ}\text{C}}$ [10 <sup>-6</sup> /K]	

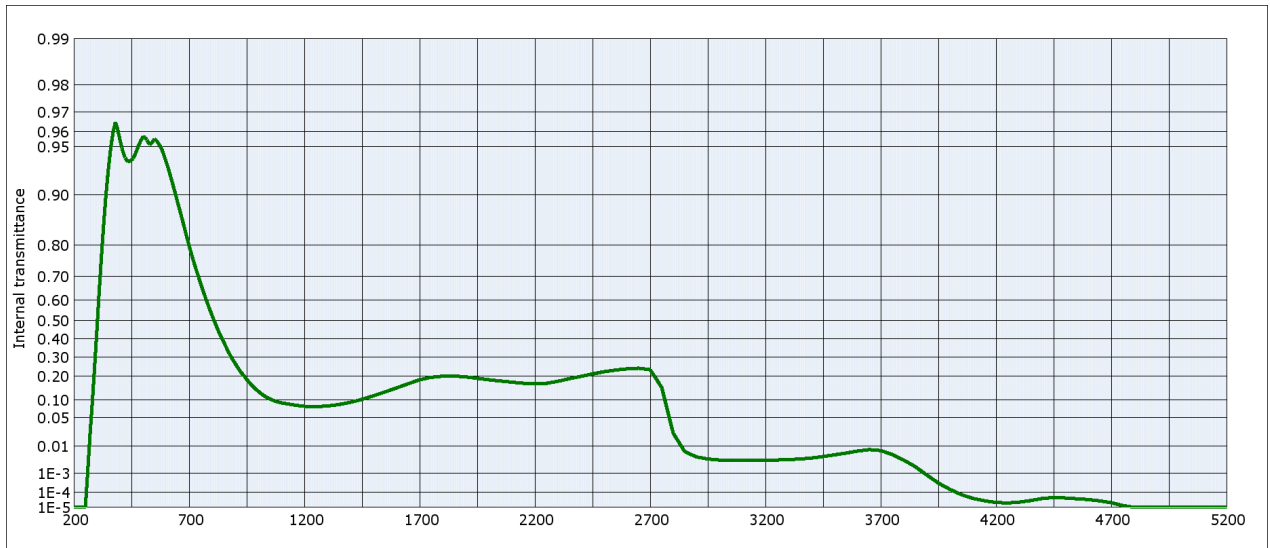
Temperature coefficient	
T <sub>K</sub> [nm/°C]	

Notes
Ionically colored glass
Shortpass filter
Heat protection filter
Long-term changes in the polished surface are possible under some circumstances.
Transmission changes are possible under the action of intense ultraviolet radiation.
<b>All data without tolerances are to be understood to be reference values.</b>
<b>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]
x	0.446	0.444	0.442	x	0.422	0.420	0.419	x	0.312	0.311	0.310
y	0.409	0.410	0.411	y	0.400	0.401	0.402	y	0.330	0.331	0.331
Y	89	87	84	Y	89	87	84	Y	90	87	85
$\lambda_d$ [nm]	506	507	507	$\lambda_d$ [nm]	505	505	506	$\lambda_d$ [nm]	501	501	501
P <sub>e</sub>	0.00	0.01	0.01	P <sub>e</sub>	0.00	0.01	0.01	P <sub>e</sub>	0.00	0.01	0.01





**Internal transmittance  $\tau_i$  at reference thickness  $d = 2$  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	0.957	800	0.524	1100	$9.1 \cdot 10^{-2}$	2200	0.165	3700	$7.4 \cdot 10^{-3}$
210	$< 10^{-5}$	510	0.956	810	0.494	1110	$9.0 \cdot 10^{-2}$	2250	0.167	3750	$5.5 \cdot 10^{-3}$
220	$< 10^{-5}$	520	0.954	820	0.464	1120	$8.8 \cdot 10^{-2}$	2300	0.176	3800	$3.5 \cdot 10^{-3}$
230	$< 10^{-5}$	530	0.952	830	0.434	1130	$8.7 \cdot 10^{-2}$	2350	0.189	3850	$1.9 \cdot 10^{-3}$
240	$< 10^{-5}$	540	0.953	840	0.408	1140	$8.6 \cdot 10^{-2}$	2400	0.200	3900	$8.4 \cdot 10^{-4}$
250	$< 10^{-5}$	550	0.955	850	0.382	1150	$8.5 \cdot 10^{-2}$	2450	0.211	3950	$3.4 \cdot 10^{-4}$
260	$1.0 \cdot 10^{-3}$	560	0.954	860	0.356	1160	$8.4 \cdot 10^{-2}$	2500	0.223	4000	$1.5 \cdot 10^{-4}$
270	$2.0 \cdot 10^{-2}$	570	0.952	870	0.330	1170	$8.3 \cdot 10^{-2}$	2550	0.231	4050	$7.3 \cdot 10^{-5}$
280	$8.8 \cdot 10^{-2}$	580	0.949	880	0.305	1180	$8.2 \cdot 10^{-2}$	2600	0.237	4100	$4.2 \cdot 10^{-5}$
290	0.245	590	0.944	890	0.284	1190	$8.1 \cdot 10^{-2}$	2650	0.240	4150	$2.9 \cdot 10^{-5}$
300	0.444	600	0.938	900	0.265	1200	$8.0 \cdot 10^{-2}$	2700	0.233	4200	$2.2 \cdot 10^{-5}$
310	0.637	610	0.931	910	0.246	1250	$7.9 \cdot 10^{-2}$	2750	0.149	4250	$2.1 \cdot 10^{-5}$
320	0.769	620	0.923	920	0.228	1300	$8.1 \cdot 10^{-2}$	2800	$2.3 \cdot 10^{-2}$	4300	$2.3 \cdot 10^{-5}$
330	0.852	630	0.913	930	0.213	1350	$8.5 \cdot 10^{-2}$	2850	$6.8 \cdot 10^{-3}$	4350	$3.0 \cdot 10^{-5}$
340	0.902	640	0.902	940	0.200	1400	$9.3 \cdot 10^{-2}$	2900	$4.5 \cdot 10^{-3}$	4400	$4.2 \cdot 10^{-5}$
350	0.931	650	0.889	950	0.185	1450	0.103	2950	$3.8 \cdot 10^{-3}$	4450	$4.8 \cdot 10^{-5}$
360	0.949	660	0.875	960	0.173	1500	0.116	3000	$3.5 \cdot 10^{-3}$	4500	$4.5 \cdot 10^{-5}$
370	0.959	670	0.859	970	0.161	1550	0.131	3050	$3.4 \cdot 10^{-3}$	4550	$4.0 \cdot 10^{-5}$
380	0.965	680	0.841	980	0.151	1600	0.147	3100	$3.3 \cdot 10^{-3}$	4600	$3.6 \cdot 10^{-5}$
390	0.961	690	0.820	990	0.142	1650	0.165	3150	$3.4 \cdot 10^{-3}$	4650	$2.9 \cdot 10^{-5}$
400	0.955	700	0.798	1000	0.133	1700	0.184	3200	$3.4 \cdot 10^{-3}$	4700	$2.1 \cdot 10^{-5}$
410	0.948	710	0.774	1010	0.126	1750	0.195	3250	$3.5 \cdot 10^{-3}$	4750	$1.3 \cdot 10^{-5}$
420	0.942	720	0.750	1020	0.119	1800	0.201	3300	$3.6 \cdot 10^{-3}$	4800	$< 10^{-5}$
430	0.939	730	0.725	1030	0.113	1850	0.201	3350	$3.8 \cdot 10^{-3}$	4850	$< 10^{-5}$
440	0.938	740	0.699	1040	0.109	1900	0.197	3400	$4.1 \cdot 10^{-3}$	4900	$< 10^{-5}$
450	0.939	750	0.671	1050	0.105	1950	0.190	3450	$4.6 \cdot 10^{-3}$	4950	$< 10^{-5}$
460	0.942	760	0.643	1060	0.101	2000	0.183	3500	$5.3 \cdot 10^{-3}$	5000	$< 10^{-5}$
470	0.946	770	0.613	1070	$9.7 \cdot 10^{-2}$	2050	0.178	3550	$6.1 \cdot 10^{-3}$	5050	$< 10^{-5}$
480	0.951	780	0.584	1080	$9.5 \cdot 10^{-2}$	2100	0.172	3600	$7.1 \cdot 10^{-3}$	5100	$< 10^{-5}$
490	0.954	790	0.553	1090	$9.3 \cdot 10^{-2}$	2150	0.168	3650	$7.9 \cdot 10^{-3}$	5150	$< 10^{-5}$