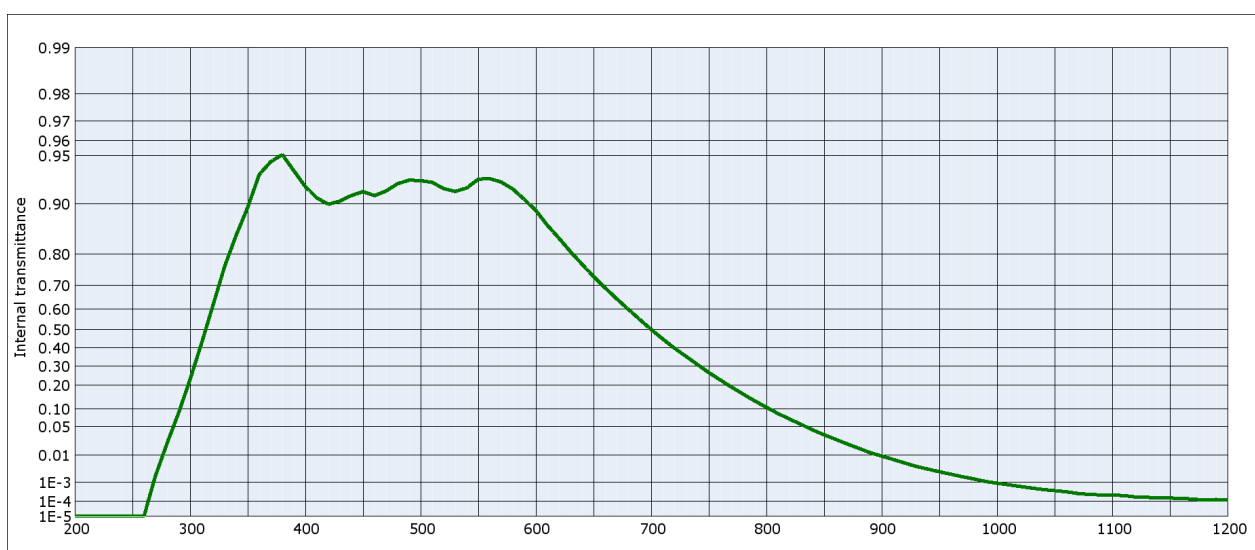


Data Sheet



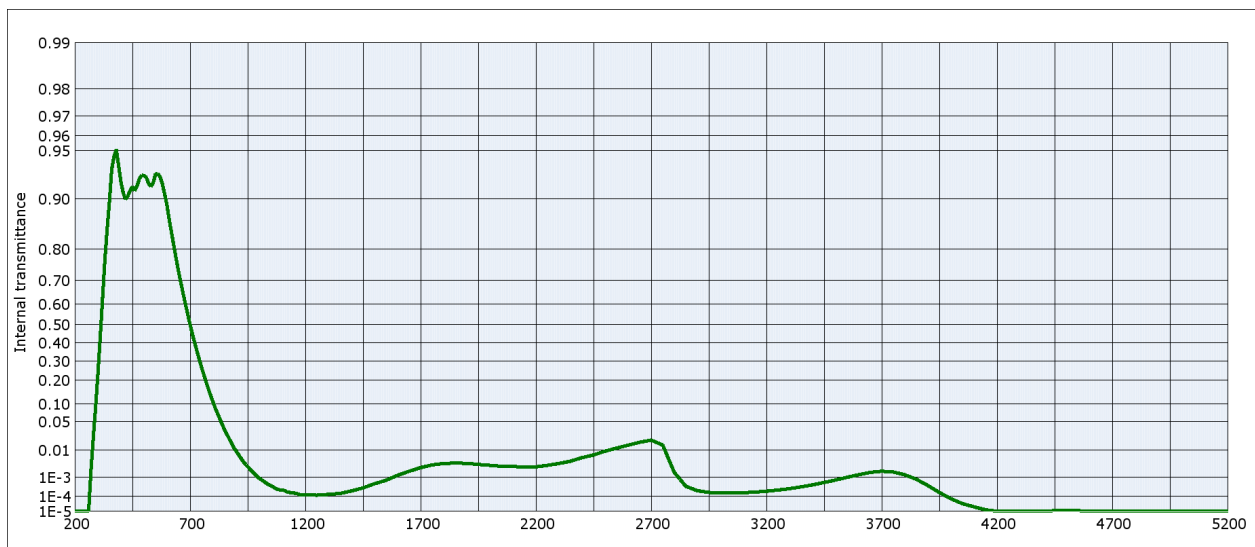
KG3		Density		Notes			
		ρ [g/cm ³]					
Reflection factor				Bubble content			
P _d		0.919		Bubble class		3	
Reference thickness				Chemical Resistance			
d [mm]		2		FR class		0	
Spectral values guaranteed				SR class		2.0	
				AR class		4.0	
				Transformation temperature			
				T _g [°C]		581	
τ_i (365nm) ≥ 0.86 τ_i (500nm) ≥ 0.88 τ_i (600nm) ≥ 0.83 τ_i (700nm) ≤ 0.55 τ_i (800nm) ≤ 0.14 τ_i (900nm) ≤ 0.03 τ_i (1060nm) ≤ 0.001 τ_i (2200nm) ≤ 0.01				Thermal expansion			
				$\alpha_{30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]		5.3	
				$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]		6.1	
				$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]			
				Temperature coefficient			
				T _K [nm/°C]			
				Refractive Index n			
				n _h (404.7 nm) = 1.529			
n _e (546.1 nm) = 1.518							
n _d (587.6 nm) = 1.516							
n _i (1014.0 nm) = 1.507							
Sellmeier coefficients on request							
<p>Notes</p> <p>Ionically colored glass</p> <p>Shortpass filter</p> <p>Heat protection filter</p> <p>☔</p> <p>Long-term changes in the polished surface are possible under some circumstances.</p> <p>☀</p> <p>Transmission changes are possible under the action of intense ultraviolet radiation.</p> <p>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".</p>							

Colorimetric evaluation												
Illuminant	A (Planck T = 2856 K)			Illuminant	Planck T = 3200 K			Illuminant	D65 (T _C = 6504 K)			
d [mm]	1	2	3	d [mm]	1	2	3	d [mm]	1	2	3	
x	0.442	0.437	0.432	x	0.418	0.413	0.409	x	0.309	0.306	0.303	
y	0.410	0.413	0.416	y	0.401	0.404	0.406	y	0.330	0.332	0.333	
Y	86	81	77	Y	87	82	77	Y	87	82	78	
λ _d [nm]	504	505	505	λ _d [nm]	503	503	503	λ _d [nm]	496	496	496	
P _e	0.01	0.02	0.04	P _e	0.01	0.02	0.04	P _e	0.01	0.02	0.03	



KG3

SCHOTT



Internal transmittance τ_i at reference thickness $d = 2$ mm
The internal transmittance values, tabulated and graphically represented, are reference values only

λ [nm]	τ_i	λ [nm]	τ_i	λ [nm]	τ_i	λ [nm]	τ_i	λ [nm]	τ_i	λ [nm]	τ_i
200	$< 10^{-5}$	500	0.928	800	0.107	1100	$2.3 \cdot 10^{-4}$	2200	$2.7 \cdot 10^{-3}$	3700	$1.8 \cdot 10^{-3}$
210	$< 10^{-5}$	510	0.926	810	$8.5 \cdot 10^{-2}$	1110	$2.2 \cdot 10^{-4}$	2250	$3.1 \cdot 10^{-3}$	3750	$1.7 \cdot 10^{-3}$
220	$< 10^{-5}$	520	0.919	820	$6.9 \cdot 10^{-2}$	1120	$1.8 \cdot 10^{-4}$	2300	$3.6 \cdot 10^{-3}$	3800	$1.3 \cdot 10^{-3}$
230	$< 10^{-5}$	530	0.916	830	$5.5 \cdot 10^{-2}$	1130	$1.7 \cdot 10^{-4}$	2350	$4.4 \cdot 10^{-3}$	3850	$8.1 \cdot 10^{-4}$
240	$< 10^{-5}$	540	0.920	840	$4.3 \cdot 10^{-2}$	1140	$1.6 \cdot 10^{-4}$	2400	$5.8 \cdot 10^{-3}$	3900	$4.1 \cdot 10^{-4}$
250	$< 10^{-5}$	550	0.930	850	$3.4 \cdot 10^{-2}$	1150	$1.6 \cdot 10^{-4}$	2450	$7.1 \cdot 10^{-3}$	3950	$1.7 \cdot 10^{-4}$
260	$< 10^{-5}$	560	0.930	860	$2.7 \cdot 10^{-2}$	1160	$1.5 \cdot 10^{-4}$	2500	$9.4 \cdot 10^{-3}$	4000	$7.2 \cdot 10^{-5}$
270	$1.9 \cdot 10^{-3}$	570	0.927	870	$2.1 \cdot 10^{-2}$	1170	$1.4 \cdot 10^{-4}$	2550	$1.2 \cdot 10^{-2}$	4050	$3.5 \cdot 10^{-5}$
280	$2.1 \cdot 10^{-2}$	580	0.919	880	$1.6 \cdot 10^{-2}$	1180	$1.2 \cdot 10^{-4}$	2600	$1.4 \cdot 10^{-2}$	4100	$2.1 \cdot 10^{-5}$
290	$8.7 \cdot 10^{-2}$	590	0.906	890	$1.2 \cdot 10^{-2}$	1190	$1.3 \cdot 10^{-4}$	2650	$1.7 \cdot 10^{-2}$	4150	$1.3 \cdot 10^{-5}$
300	0.229	600	0.890	900	$9.5 \cdot 10^{-3}$	1200	$1.2 \cdot 10^{-4}$	2700	$1.9 \cdot 10^{-2}$	4200	$< 10^{-5}$
310	0.426	610	0.864	910	$7.4 \cdot 10^{-3}$	1250	$1.2 \cdot 10^{-4}$	2750	$1.4 \cdot 10^{-2}$	4250	$< 10^{-5}$
320	0.618	620	0.838	920	$5.7 \cdot 10^{-3}$	1300	$1.3 \cdot 10^{-4}$	2800	$1.6 \cdot 10^{-3}$	4300	$< 10^{-5}$
330	0.763	630	0.805	930	$4.3 \cdot 10^{-3}$	1350	$1.5 \cdot 10^{-4}$	2850	$3.7 \cdot 10^{-4}$	4350	$< 10^{-5}$
340	0.845	640	0.770	940	$3.5 \cdot 10^{-3}$	1400	$2.1 \cdot 10^{-4}$	2900	$2.1 \cdot 10^{-4}$	4400	$1.0 \cdot 10^{-5}$
350	0.895	650	0.730	950	$2.7 \cdot 10^{-3}$	1450	$3.0 \cdot 10^{-4}$	2950	$1.7 \cdot 10^{-4}$	4450	$1.1 \cdot 10^{-5}$
360	0.934	660	0.689	960	$2.2 \cdot 10^{-3}$	1500	$5.0 \cdot 10^{-4}$	3000	$1.6 \cdot 10^{-4}$	4500	$1.1 \cdot 10^{-5}$
370	0.946	670	0.645	970	$1.7 \cdot 10^{-3}$	1550	$7.2 \cdot 10^{-4}$	3050	$1.6 \cdot 10^{-4}$	4550	$1.1 \cdot 10^{-5}$
380	0.951	680	0.599	980	$1.4 \cdot 10^{-3}$	1600	$1.2 \cdot 10^{-3}$	3100	$1.6 \cdot 10^{-4}$	4600	$1.0 \cdot 10^{-5}$
390	0.938	690	0.550	990	$1.1 \cdot 10^{-3}$	1650	$1.8 \cdot 10^{-3}$	3150	$1.8 \cdot 10^{-4}$	4650	$< 10^{-5}$
400	0.922	700	0.498	1000	$9.1 \cdot 10^{-4}$	1700	$2.5 \cdot 10^{-3}$	3200	$2.0 \cdot 10^{-4}$	4700	$< 10^{-5}$
410	0.908	710	0.448	1010	$7.7 \cdot 10^{-4}$	1750	$3.2 \cdot 10^{-3}$	3250	$2.3 \cdot 10^{-4}$	4750	$< 10^{-5}$
420	0.899	720	0.399	1020	$6.4 \cdot 10^{-4}$	1800	$3.7 \cdot 10^{-3}$	3300	$2.8 \cdot 10^{-4}$	4800	$< 10^{-5}$
430	0.904	730	0.354	1030	$5.4 \cdot 10^{-4}$	1850	$3.8 \cdot 10^{-3}$	3350	$3.4 \cdot 10^{-4}$	4850	$< 10^{-5}$
440	0.911	740	0.308	1040	$4.5 \cdot 10^{-4}$	1900	$3.7 \cdot 10^{-3}$	3400	$4.4 \cdot 10^{-4}$	4900	$< 10^{-5}$
450	0.916	750	0.265	1050	$4.0 \cdot 10^{-4}$	1950	$3.4 \cdot 10^{-3}$	3450	$5.7 \cdot 10^{-4}$	4950	$< 10^{-5}$
460	0.911	760	0.226	1060	$3.5 \cdot 10^{-4}$	2000	$3.1 \cdot 10^{-3}$	3500	$7.5 \cdot 10^{-4}$	5000	$< 10^{-5}$
470	0.917	770	0.190	1070	$2.8 \cdot 10^{-4}$	2050	$2.9 \cdot 10^{-3}$	3550	$1.0 \cdot 10^{-3}$	5050	$< 10^{-5}$
480	0.925	780	0.158	1080	$2.5 \cdot 10^{-4}$	2100	$2.8 \cdot 10^{-3}$	3600	$1.3 \cdot 10^{-3}$	5100	$< 10^{-5}$
490	0.929	790	0.130	1090	$2.4 \cdot 10^{-4}$	2150	$2.8 \cdot 10^{-3}$	3650	$1.6 \cdot 10^{-3}$	5150	$< 10^{-5}$