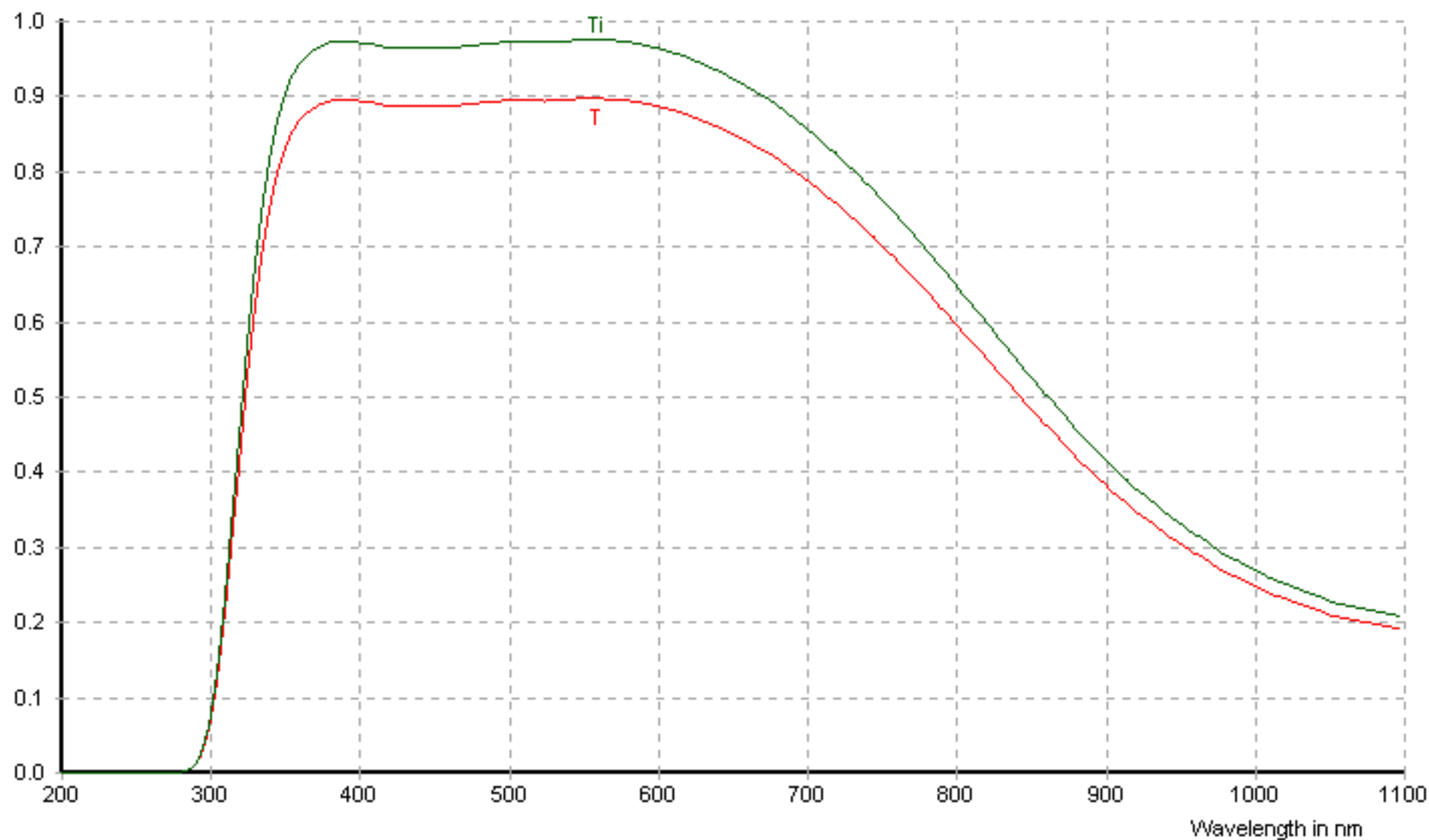


Thickness in mm : 2.0
Wavelength in nm :
Transmittance :
Internal Transmittance :

KG 4

SCHOTT
TOTAL CUSTOMER CARE



Reflection factor	
P_d	0.92
Bubble content	
Bubble class	
Chemical resistance	
FR class	0
SR class	2.0
AR class	3.0

Density	
ρ [g/cm ³]	2.53
Transformation temperature	
T_g [°C]	613
Thermal expansion	
$\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	5.4
$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	6.2
Temperature coefficient	
T_k [nm/°C]	

Per DIN 58191 KP 868
Per DIN 58191

Ionically colored glass

Limit values of τ_i
for thickness $d^1 = 2$ mm

Wave-length [nm]	Limits	Value from catalog curve
365	≥ 0.94	0.95
500	≥ 0.95	0.97
600	≥ 0.94	0.97
700	≤ 0.93	0.86
800	≤ 0.72	0.65
900	≤ 0.59	0.42
1060	≤ 0.41	0.22
2200	≤ 0.43	0.29

Refractive index n

λ [nm]	Element	n
365	Hg	1.53
587.6	He	1.51

Tristimulus values

	d [mm]	x	y	Y	λ_d [nm]	P_e
A	1	0.447	0.408	90	511	0.00
2856	2	0.445	0.409	89	511	0.01
K	3	0.444	0.410	87	512	0.01
	5	0.442	0.412	85	512	0.01
3200	1	0.422	0.400	90	511	0.00
	2	0.421	0.401	89	511	0.00
K	3	0.421	0.402	88	511	0.01
	5	0.419	0.403	85	511	0.01
D ₆₅	1	0.312	0.330	91	511	0.00
	2	0.312	0.331	89	512	0.00
	3	0.311	0.331	88	512	0.00
	5	0.310	0.333	85	512	0.01

Application notes

Short pass filter
- see section 6.7.2

[!]
Long-term changes in the polished surface are possible under some circumstances
- see section 5.5

∇
Transmission changes are possible under the action of intense ultraviolet radiation
Status June 1997

Transmittance τ and internal transmittance τ_i at $d = 2$ mm

λ [nm]	τ	τ_i	λ [nm]	τ	τ_i
200	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	700	0.79	0.86
210	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	710	0.77	0.84
220	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	720	0.76	0.83
230	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	730	0.74	0.81
240	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	740	0.72	0.79
250	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	750	0.70	0.77
260	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	760	0.68	0.74
270	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	770	0.66	0.72
280	$7 \cdot 10^{-4}$	$8 \cdot 10^{-4}$	780	0.64	0.70
290	0.009	0.01	790	0.62	0.67
300	0.06	0.07	800	0.60	0.65
310	0.21	0.22	850	0.49	0.53
320	0.41	0.45	900	0.39	0.42
330	0.61	0.67	950	0.31	0.33
340	0.75	0.81	1000	0.25	0.27
350	0.83	0.90	1060	0.21	0.22
360	0.87	0.94	1100	0.19	0.21
370	0.89	0.96	1200	0.17	0.18
380	0.89	0.97	1300	0.17	0.18
390	0.90	0.97	1400	0.18	0.20
400	0.89	0.97	1500	0.20	0.22
410	0.89	0.97	1600	0.25	0.27
420	0.89	0.97	1700	0.29	0.31
430	0.89	0.96	1800	0.30	0.33
440	0.89	0.96	1900	0.30	0.33
450	0.89	0.96	2000	0.29	0.32
460	0.89	0.96	2100	0.29	0.31
470	0.89	0.97	2200	0.27	0.29
480	0.89	0.97	2300	0.28	0.30
490	0.89	0.97	2400	0.30	0.33
500	0.90	0.97	2500	0.31	0.34
510	0.90	0.97	2600	0.31	0.34
520	0.90	0.97	2700	0.29	0.32
530	0.90	0.97	2800	0.02	0.02
540	0.90	0.97	2900	0.002	0.002
550	0.90	0.98	3000	0.002	0.002
560	0.90	0.98	3200	0.002	0.002
570	0.90	0.98	3400	0.002	0.002
580	0.90	0.97	3600	0.004	0.004
590	0.89	0.97	3800	0.002	0.002
600	0.89	0.97	4000	$9 \cdot 10^{-5}$	$1 \cdot 10^{-4}$
610	0.88	0.96	4200	$1 \cdot 10^{-5}$	$1 \cdot 10^{-5}$
620	0.88	0.95	4400	$3 \cdot 10^{-5}$	$3 \cdot 10^{-5}$
630	0.87	0.94	4600	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$
640	0.86	0.94	4800	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$
650	0.85	0.92	5000	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$
660	0.84	0.91	5200	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$
670	0.83	0.90			
680	0.82	0.89			
690	0.80	0.87			