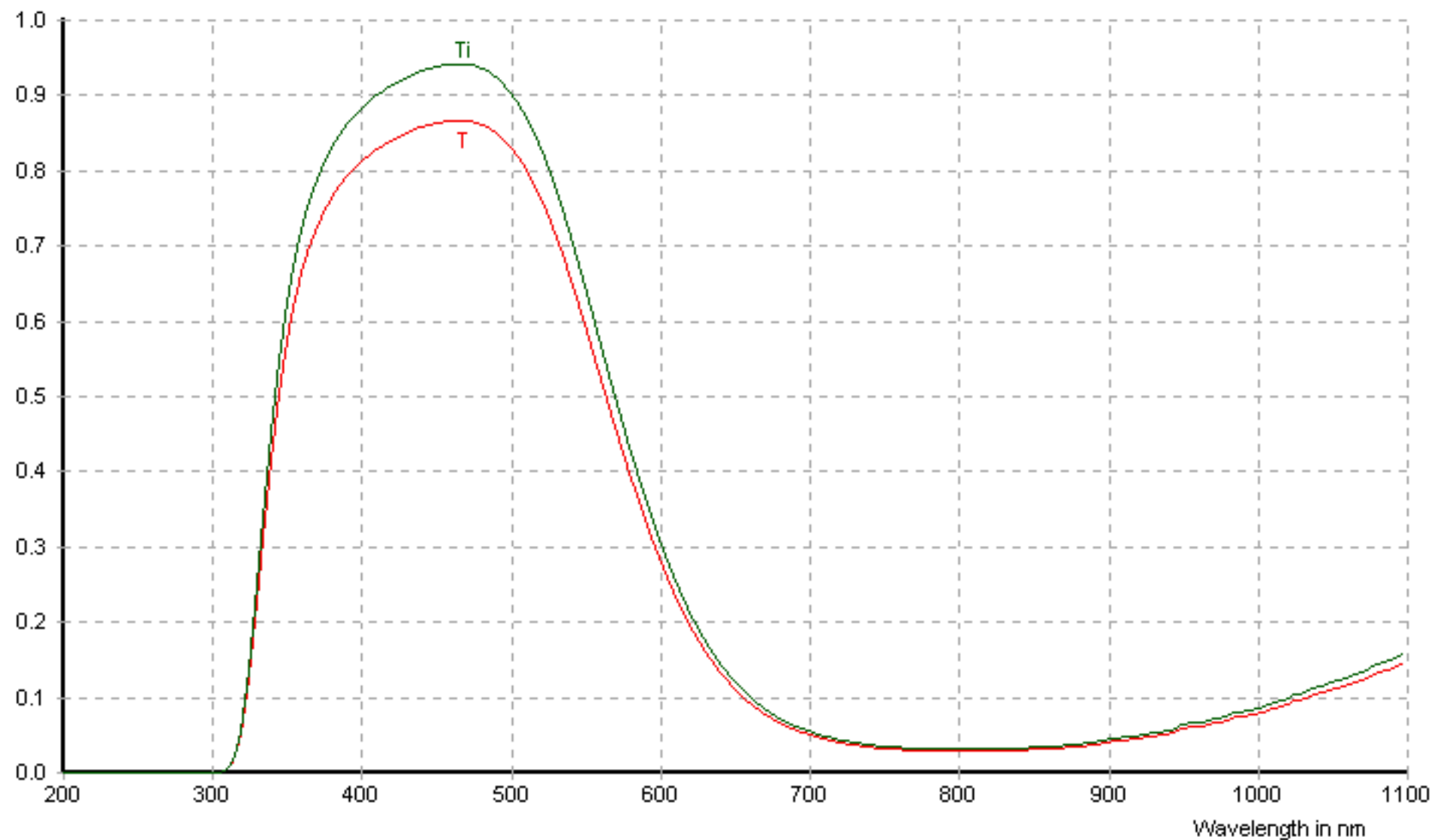


Thickness in mm : 1.0
Wavelength in nm :
Transmittance :
Internal Transmittance :

BG 23

SCHOTT
TOTAL CUSTOMER CARE



Reflection factor P_d	0.92
Bubble content Bubble class	1
Chemical resistance FR class	0
SR class	1.0
AR class	1.0

Density ρ [g/cm ³]	2.57
Transformation temperature T_g [°C]	483
Thermal expansion $\alpha_{-30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	8.9
$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	10.2
Temperature coefficient T_k [nm/°C]	

Per DIN 58191
Per DIN 58191

BP 459/232
KP 575

Ionically colored glass

Limit values of τ_i
for thickness $d_i = 1$ mm

Wave-length [nm]	Limits	Value from catalog curve
450	≥ 0.92	0.94
633	≤ 0.25	0.17
800	≤ 0.08	0.03

Refractive index n

λ [nm]	Element	n
404.7	Hg	1.53
587.6	He	1.52

Tristimulus values

	d [mm]	x	y	Y	λ_d [nm]	P_e
A	1	0.320	0.411	46	495	0.30
2856	2	0.235	0.384	28	493	0.51
K	3	0.186	0.347	19	491	0.64
	5	0.144	0.280	11	487	0.78
3200	1	0.299	0.391	48	493	0.32
	2	0.221	0.357	30	491	0.53
K	3	0.178	0.319	21	489	0.66
	5	0.142	0.255	12	486	0.78
D ₆₅	1	0.221	0.287	54	486	0.37
	2	0.177	0.246	37	484	0.57
	3	0.156	0.214	27	482	0.68
	5	0.140	0.170	17	480	0.79

Application notes

Band pass filter
- see section 6.7.3

Short pass filter
- see section 6.7.2

∇
Transmission changes are possible under the action of intense ultraviolet radiation
- see section 8.3

Status June 1997

Transmittance τ and internal transmittance τ_i at $d = 1$ mm

λ [nm]	τ	τ_i	λ [nm]	τ	τ_i
200	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	700	0.05	0.06
210	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	710	0.05	0.05
220	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	720	0.04	0.04
230	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	730	0.04	0.04
240	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	740	0.03	0.04
250	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	750	0.03	0.04
260	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	760	0.03	0.03
270	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	770	0.03	0.03
280	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	780	0.03	0.03
290	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	790	0.03	0.03
300	$< 1 \cdot 10^{-5}$	$< 1 \cdot 10^{-5}$	800	0.03	0.03
310	0.003	0.003	850	0.03	0.03
320	0.05	0.06	900	0.04	0.04
330	0.22	0.24	950	0.06	0.06
340	0.41	0.45	1000	0.08	0.09
350	0.57	0.62	1060	0.12	0.13
360	0.66	0.72	1100	0.15	0.16
370	0.72	0.78	1200	0.23	0.25
380	0.76	0.83	1300	0.32	0.35
390	0.79	0.86	1400	0.42	0.46
400	0.81	0.88	1500	0.52	0.56
410	0.83	0.90	1600	0.59	0.64
420	0.84	0.91	1700	0.64	0.70
430	0.85	0.92	1800	0.70	0.76
440	0.86	0.93	1900	0.74	0.80
450	0.86	0.94	2000	0.77	0.84
460	0.87	0.94	2100	0.79	0.86
470	0.87	0.94	2200	0.81	0.88
480	0.86	0.94	2300	0.82	0.89
490	0.85	0.93	2400	0.83	0.90
500	0.83	0.91	2500	0.84	0.91
510	0.81	0.88	2600	0.84	0.91
520	0.77	0.84	2700	0.83	0.90
530	0.72	0.78	2800	0.67	0.73
540	0.66	0.72	2900	0.65	0.71
550	0.60	0.65	3000	0.63	0.69
560	0.53	0.58	3200	0.53	0.58
570	0.46	0.50	3400	0.43	0.47
580	0.40	0.43	3600	0.40	0.44
590	0.34	0.37	3800	0.42	0.46
600	0.29	0.31	4000	0.45	0.49
610	0.24	0.26	4200	0.38	0.41
620	0.20	0.22	4400	0.24	0.26
630	0.16	0.18	4600	0.08	0.08
640	0.14	0.15	4800	0.03	0.03
650	0.11	0.12	5000	0.009	0.01
660	0.09	0.10	5200	$4 \cdot 10^{-4}$	$4 \cdot 10^{-4}$
670	0.08	0.09			
680	0.07	0.07			
690	0.06	0.06			