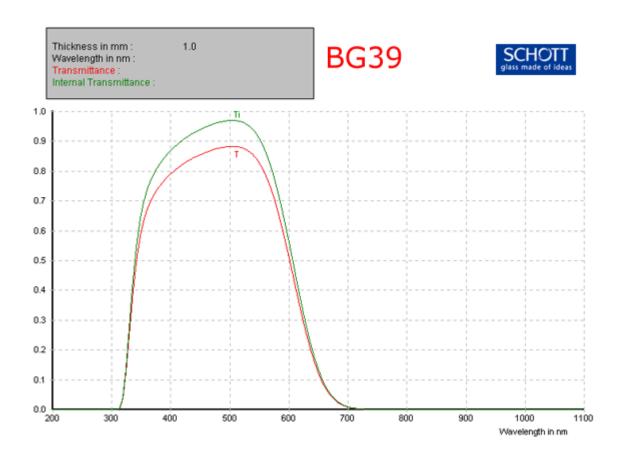


DATA SHEET SCHOTT BG39





BG39

Reflection factor Output Subble content Bubble class 2 Chemical resistance FR class 0 SR class 5.1 AR class 3.0	Density $\rho\left[g/cm^3\right] \qquad 2.73$ Transformation temperature $Tg\left[{}^{\circ}C\right] \qquad 321$ Thermal expansion $\alpha_{*30/*70^{\circ}C}\left[10^{-6}/K\right] \qquad 11.6$ $\alpha_{20/200^{\circ}C}\left[10^{-6}/K\right] \qquad 13.1$ Temperature coefficient $T_k\left[nm/{}^{\circ}C\right]$ Transmittance τ and internal trans $\lambda\left[nm\right] \qquad \tau \qquad \tau_i$			Per DIN 58191 Per DIN 58191 Ionically colored gla smittance τ _i at d = 1 mm λ [nm] τ		BP 475/269 KP 609 ass
.imit values of τ _ι for thickness d'= 1 mm						
Wave- Limits Value from	200	<1⋅10⋅5	<1.10.5	700	0.009	0.01
ength [nm] catalog curve	210	<1.10.6	<1.10.6	710	0.005	0.005
350 ≥0.60 0.65	220	<1.10.6	<1.10.6	720	0.003	0.003
405 ≥0.85 0.88 514 >0.93 0.97	230	<1.10-5	<1.10.5	730 740	9-10-4	0.001 7-10 -4
514 ≥0.93 0.97 533 ≤0.30 0.26	240 250	<1·10·5 <1·10·5	<1-10-5 <1-10-5	750	6·10·4 3·10·4	3-10-4
555 ≤0.50 0.20 694 ≤0.03 0.02	260	<1.10.6	<1.10-6	760	9-10-6	1-10-4
1060 ≤0.001 1.10.4	270	<1.10-5	<1.10.6	770	8-10-5	9-10-5
<u>-</u>	280	<1.10.5	<1.10-5	780	5-10-5	5-10-5
	290	<1.10.5	<1-10-5	790	3-10-5	3-10-5
	300	<1.10.5	<1.10.6	800	2-10-5	2-10-5
Refractive index n	310	9.10-6	1.10-4	850	<1.10-5	1-10-5
l, (nm) Element n 404.7 Hα 1.55	320	0.04	0.04	900 950	<1·10·5 <1·10·5	<1·10·5 1·10·5
104.7 Hg 1.55 587.6 He 1.54	330 340	0.23	0.26	1000	3-10-5	3-10-5
367.0 RE 1.34	350	0.59	0.65	1060	9-10-6	1.10.4
	360	0.67	0.73	1100	4-10-4	4-10-4
	370	0.71	0.78	1200	0.003	0.003
fristimulus values	380	0.74	0.82	1300	0.02	0.02
d x y Y λ _g P _g	390	0.77	0.85	1400	0.06	0.07
[mm] [nm]	400	0.79	0.87	1500	0.16	0.18
A 1 0.365 0.434 66 500 0.19	410	0.81	0.89	1600	0.31	0.34
2856 2 0.314 0.444 53 500 0.30	420	0.82	0.90	1700	0.46	0.51
3 0.279 0.449 45 499 0.39 5 0.235 0.450 35 498 0.49	430 440	0.83	0.92	1800 1900	0.67	0.74 0.74
1 0.344 0.418 67 498 0.49	450	0.85	0.94	2000	0.74	0.74
3200 2 0.296 0.425 55 498 0.31	460	0.86	0.95	2100	0.78	0.86
4 3 0.264 0.426 47 497 0.39	470	0.87	0.96	2200	0.79	0.87
5 0.223 0.425 37 497 0.49	480	0.88	0.96	2300	0.78	0.86
1 0.257 0.326 73 491 0.21	490	0.88	0.97	2400	0.78	0.86
D ₆₅ 2 0.226 0.321 62 490 0.32	500	0.88	0.97	2500	0.75	0.82
3 0.207 0.317 33 490 0.40	510	0.88	0.97	2600	0.67	0.74
5 0.183 0.311 45 490 0.49	520	0.88	0.97	2700	0.63	0.69
Innlication nates	530 540	0.87	0.96 0.94	2800 2900	0.30	0.33
Application notes Band pass filter	550	0.83	0.94	3000	0.02	0.02
see section 6.7.3	560	0.80	0.87	3200	0.002	0.002
	570	0.75	0.82	3400	3-10-4	3-10-4
Short pass filter	580	0.68	0.75	3600	6-10-4	6-10-4
see section 6.7.2	590	0.61	0.67	3800	0.002	0.002
	600	0.52	0.58	4000	6-10-4	7-10-4
!!]	610	0.43	0.48	4200	2-10-5	2-10-5
ong-term changes in the polished	620	0.34	0.38	4400	3-10-4	3-10-4
surface are possible	630	0.26	0.29	4600	6-10-4	7-10-4
see section 5.5	640	0.19	0.21	4800	0.003	0.003
	650 660	0.13	0.14	5000 5200	0.003	0.003
	670	0.05	0.06	3200	0.003	0.003
	680	0.03	0.03			
	200	0.02	0.02			

While every attempt has been made to verify the source of the information, no responsibility is accepted for accuracy of data.

