Data Sheet

BG36

Optical properties			
Reflection factor			
	P_d	=	0,877
Spectral values guaranteed			
τ_i (405 nm)		≥	0,9
τ_i (450 nm)		≤	0,42
τ_i (650 nm)		≥	0,9
τ_i (800 nm)		≤	0,01
Refractive indices			
n_d (587,6 nm)		=	1,69
Sellmeier coefficients			
on request			
Internal quality			
Bubble class			3

Mechanical properties			
Reference thickness			
	d	=	1,00 mm
Density			
	ρ	=	3,59 g/cm³
Knoop hardness			
HK[0.1/20]		=	701

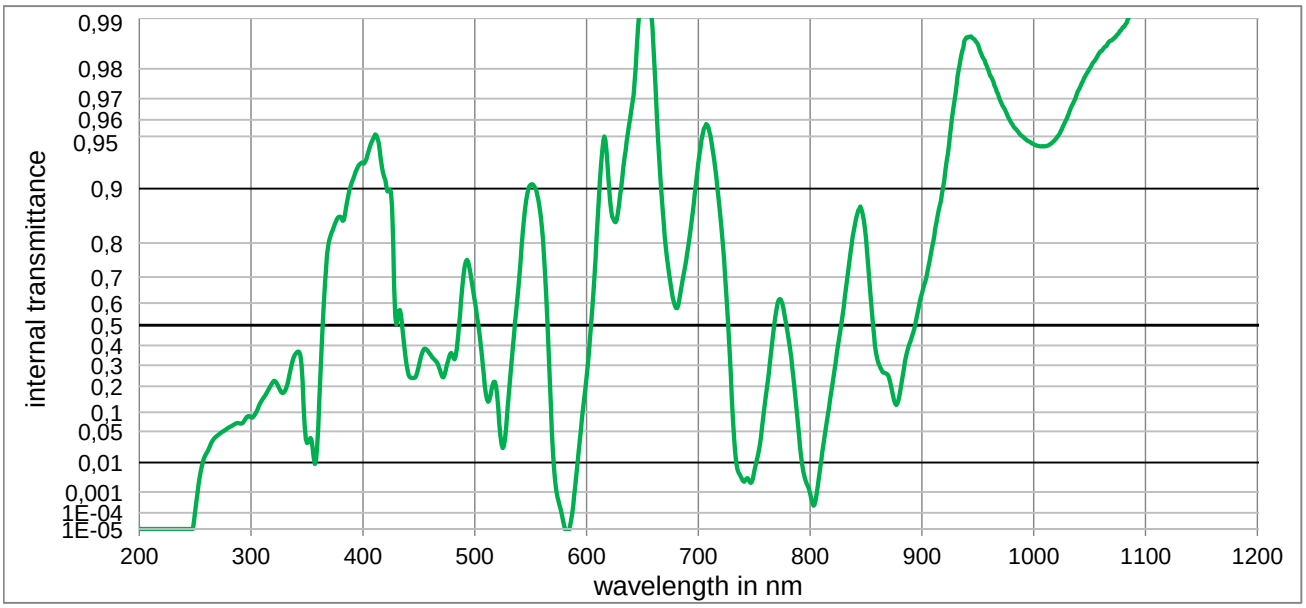
Thermal properties			
Transformation temperature			
	Tg	=	657 °C
Thermal expansion in			10^{-6}/K
$\alpha_{(-30°C/+70°C)}$		=	6,1
$\alpha_{(20°C/300°C)}$		=	7,2

Chemical properties			
Chemical resistance			
	FR class	=	1
	SR class	=	52.2
	AR class	=	1.2
Resistance against humidity			
Delicate glass			
see pocket catalogue "Optical Filter Glass 2020", chapter 5.5			

Colormetric properties				
		1 mm	2 mm	3 mm
Illuminant D65	x	0,344	0,395	0,429
	y	0,327	0,356	0,370
	Y	39,5	29,0	23,5
	λ_d	622 nm	591 nm	590 nm
	P_e	0,082	0,305	0,437
Illuminant A	x	0,495	0,534	0,557
	y	0,387	0,390	0,389
	Y	41,4	32,2	26,9
	λ_d	628 nm	600 nm	599 nm
	P_e	0,185	0,478	0,628

Notes
Ionically colored glass
Multi bandpass filter
DIN 58131

Disclaimer
All data without tolerances are to be understood to be reference values.



Data Sheet

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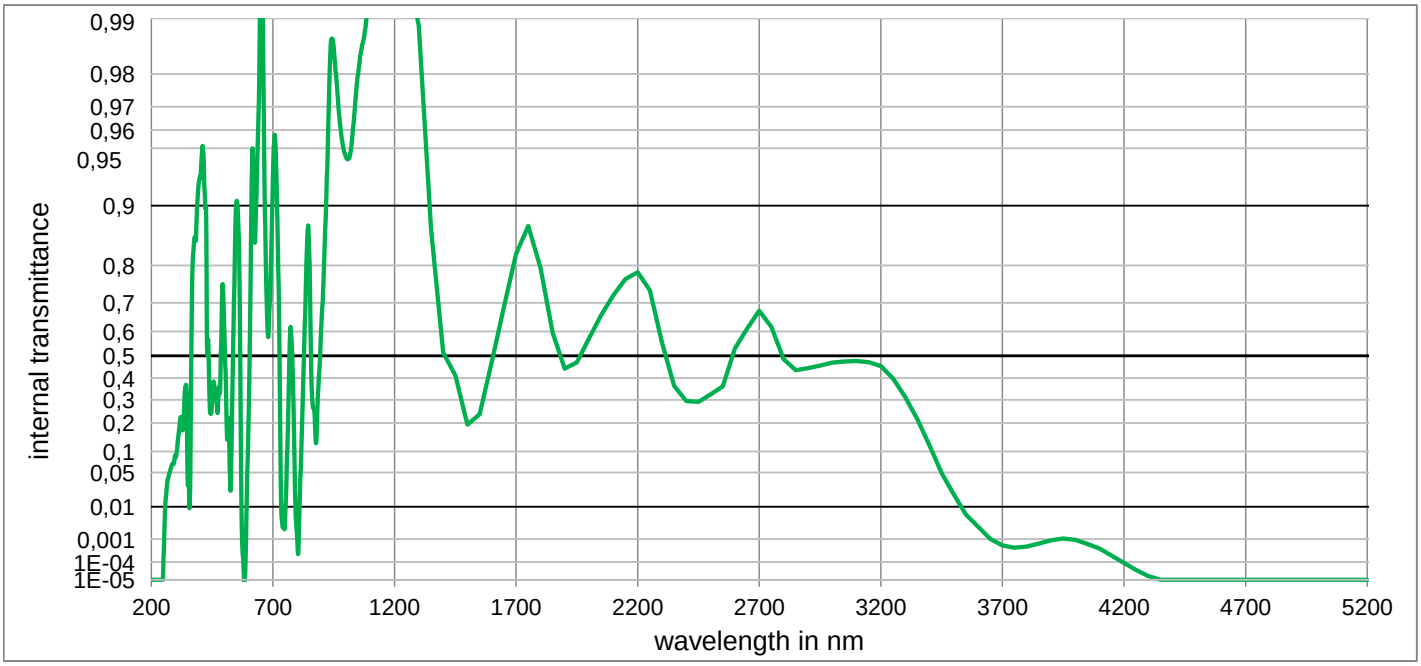

Internal transmittance ti at reference thickness
The internal transmittance values, tabulated and graphically represented, are reference values only

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	< 1,0E-05	500	6,084E-01	800	8,615E-04	1100	9,947E-01	2200	7,840E-01	3700	5,636E-04
210	< 1,0E-05	510	1,685E-01	810	1,212E-02	1110	9,956E-01	2250	7,370E-01	3750	4,498E-04
220	< 1,0E-05	520	1,625E-01	820	2,111E-01	1120	9,965E-01	2300	5,570E-01	3800	5,035E-04
230	< 1,0E-05	530	1,386E-01	830	5,842E-01	1130	9,973E-01	2350	3,641E-01	3850	6,764E-04
240	< 1,0E-05	540	7,084E-01	840	8,398E-01	1140	9,979E-01	2400	2,940E-01	3900	8,872E-04
250	1,3E-04	550	9,047E-01	850	8,090E-01	1150	9,981E-01	2450	2,914E-01	3950	1,054E-03
260	1,7E-02	560	8,367E-01	860	3,330E-01	1160	9,979E-01	2500	3,250E-01	4000	9,311E-04
270	4,2E-02	570	1,873E-02	870	2,481E-01	1170	9,974E-01	2550	3,616E-01	4050	6,485E-04
280	5,8E-02	580	1,610E-05	880	1,625E-01	1180	9,966E-01	2600	5,320E-01	4100	4,112E-04
290	6,8E-02	590	1,816E-03	890	4,256E-01	1190	9,956E-01	2650	6,110E-01	4150	2,000E-04
300	8,4E-02	600	2,413E-01	900	6,394E-01	1200	9,946E-01	2700	6,740E-01	4200	8,913E-05
310	1,4E-01	610	8,512E-01	910	8,023E-01	1250	9,950E-01	2750	6,170E-01	4250	3,746E-05
320	2,223E-01	620	9,037E-01	920	9,102E-01	1300	9,890E-01	2800	4,856E-01	4300	1,710E-05
330	1,781E-01	630	8,899E-01	930	9,718E-01	1350	8,689E-01	2850	4,360E-01	4350	< 1,000E-05
340	3,601E-01	640	9,649E-01	940	9,870E-01	1400	5,130E-01	2900	4,455E-01	4400	< 1,000E-05
350	2,978E-02	650	9,962E-01	950	9,857E-01	1450	4,112E-01	2950	4,570E-01	4450	< 1,000E-05
360	6,104E-02	660	9,844E-01	960	9,792E-01	1500	1,930E-01	3000	4,695E-01	4500	< 1,000E-05
370	8,080E-01	670	8,158E-01	970	9,692E-01	1550	2,365E-01	3050	4,748E-01	4550	< 1,000E-05
380	8,558E-01	680	5,792E-01	980	9,582E-01	1600	4,754E-01	3100	4,767E-01	4600	< 1,000E-05
390	9,077E-01	690	7,712E-01	990	9,499E-01	1650	6,889E-01	3150	4,720E-01	4650	< 1,000E-05
400	9,286E-01	700	9,289E-01	1000	9,445E-01	1700	8,240E-01	3200	4,547E-01	4700	< 1,000E-05
410	9,496E-01	710	9,529E-01	1010	9,429E-01	1750	8,730E-01	3250	3,980E-01	4750	< 1,000E-05
420	9,107E-01	720	8,502E-01	1020	9,484E-01	1800	7,951E-01	3300	3,137E-01	4800	< 1,000E-05
430	5,033E-01	730	1,533E-01	1030	9,614E-01	1850	5,949E-01	3350	2,154E-01	4850	< 1,000E-05
440	2,722E-01	740	2,600E-03	1040	9,731E-01	1900	4,433E-01	3400	1,186E-01	4900	< 1,000E-05
450	2,957E-01	750	5,260E-03	1050	9,801E-01	1950	4,709E-01	3450	4,861E-02	4950	< 1,000E-05
460	3,560E-01	760	1,460E-01	1060	9,843E-01	2000	5,741E-01	3500	1,952E-02	5000	< 1,000E-05
470	2,574E-01	770	5,782E-01	1070	9,865E-01	2050	6,600E-01	3550	6,251E-03	5050	< 1,000E-05
480	3,513E-01	780	4,586E-01	1080	9,887E-01	2100	7,230E-01	3600	2,675E-03	5100	< 1,000E-05
490	7,056E-01	790	4,187E-02	1090	9,918E-01	2150	7,680E-01	3650	1,009E-03	5150	< 1,000E-05