25mm diameter SCHOTT GG495 LONGPASS FILTER 3mm thick
https://www.galvoptics.co.uk/optical-components/optical-filters/schott-longpass-filters/

Data Sheet

SCHOTT

GG495

Reflection factor	
P_d	0.918

Reference thickness	
d [mm]	3

Spectral values guaranteed		
λ_c (τ_i = 0.5) [nm]	=	495 ± 6
λ_s ($\tau_{i,U}$ = 10^{-5}) [nm]	=	430
λ_p ($\tau_{i,L}$ = 0.92) [nm]	=	560

Refractive Index n
n_e (546.1 nm) = 1.526
n_d (587.6 nm) = 1.524
n_s (852.1 nm) = 1.516
n_t (1014.0 nm) = 1.514
Sellmeier coefficients on request

Density	
ρ [g/cm^3]	2.56

Bubble content	
Bubble class	3

Chemical Resistance	
FR class	0
SR class	1.0
AR class	1.0

Transformation temperature	
Tg [°C]	535

Thermal expansion	
$\alpha_{-30/+70°C}$ [10^{-6}/K]	8.1
$\alpha_{20/300°C}$ [10^{-6}/K]	9.4
$\alpha_{20/200°C}$ [10^{-6}/K]	

Temperature coefficient	
T_K [nm/°C]	0.10

Notes
Colloidally colored glass
Longpass filter

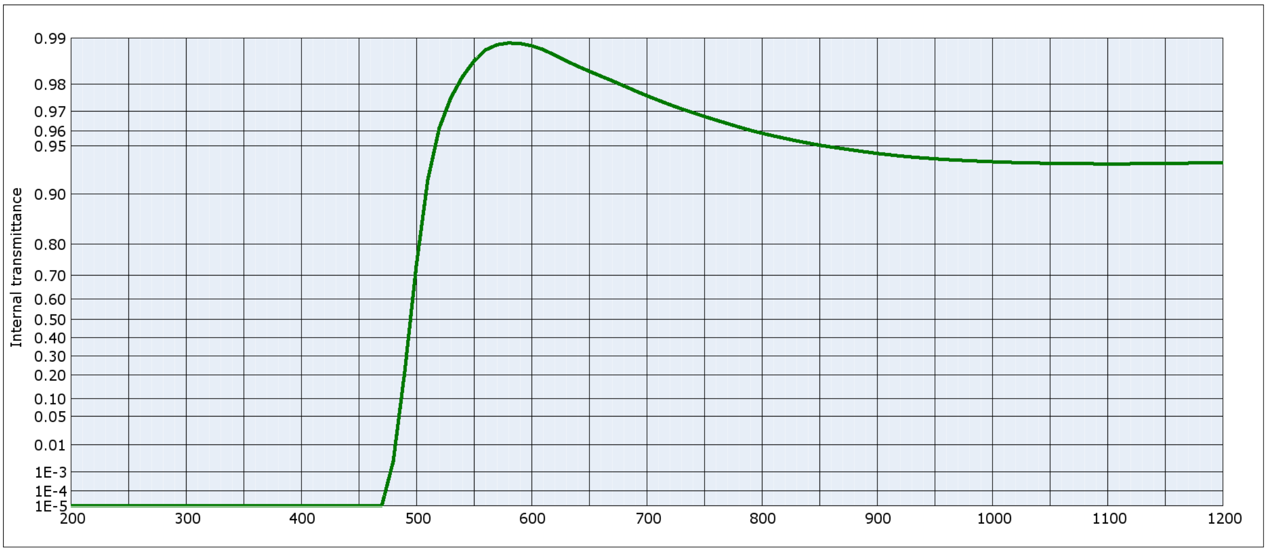
All data wihout tolerances are to be understood to be reference values. Guaranteed values are only those values listed in the section "Spectral values guaranteed".

Colorimetric evaluation

Illuminant	A (Planck T = 2856 K)		
d [mm]	**1**	**2**	**3**
x	0.502	0.507	0.509
y	0.469	0.472	0.472
Y	89	88	88
λ_d [nm]	580	581	581
P_e	0.81	0.86	0.88

Illuminant	Planck T = 3200 K		
d [mm]	**1**	**2**	**3**
x	0.488	0.494	0.497
y	0.478	0.482	0.482
Y	89	88	87
λ_d [nm]	579	579	579
P_e	0.82	0.87	0.89

Illuminant	D65 (T_C = 6504 K)		
d [mm]	**1**	**2**	**3**
x	0.422	0.433	0.438
y	0.514	0.525	0.527
Y	87	85	84
λ_d [nm]	570	571	571
P_e	0.82	0.89	0.90



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Further explanations see 'Optical Filters 2013' catalogue

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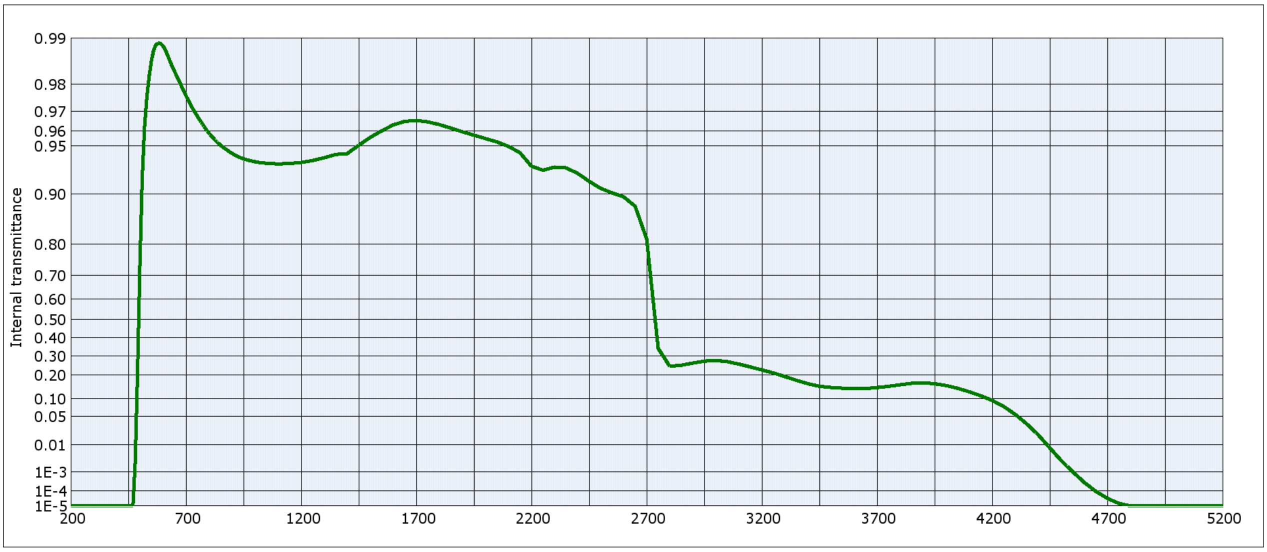

Internal transmittance τ_i at reference thickness d = 3 mm
The internal transmittance values, tabulated and graphically represented, are reference values only

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	0.732	800	0.959	1100	0.935	2200	0.933	3700	0.143
210	$< 10^{-5}$	510	0.918	810	0.957	1110	0.935	2250	0.929	3750	0.149
220	$< 10^{-5}$	520	0.962	820	0.955	1120	0.935	2300	0.932	3800	0.155
230	$< 10^{-5}$	530	0.976	830	0.954	1130	0.935	2350	0.931	3850	0.162
240	$< 10^{-5}$	540	0.982	840	0.952	1140	0.935	2400	0.926	3900	0.164
250	$< 10^{-5}$	550	0.986	850	0.951	1150	0.936	2450	0.917	3950	0.160
260	$< 10^{-5}$	560	0.988	860	0.949	1160	0.936	2500	0.908	4000	0.152
270	$< 10^{-5}$	570	0.989	870	0.948	1170	0.936	2550	0.901	4050	0.141
280	$< 10^{-5}$	580	0.989	880	0.947	1180	0.936	2600	0.896	4100	0.127
290	$< 10^{-5}$	590	0.989	890	0.946	1190	0.936	2650	0.881	4150	0.111
300	$< 10^{-5}$	600	0.989	900	0.944	1200	0.936	2700	0.813	4200	$9.5 \cdot 10^{-2}$
310	$< 10^{-5}$	610	0.988	910	0.943	1250	0.938	2750	0.341	4250	$7.6 \cdot 10^{-2}$
320	$< 10^{-5}$	620	0.987	920	0.942	1300	0.941	2800	0.244	4300	$5.5 \cdot 10^{-2}$
330	$< 10^{-5}$	630	0.986	930	0.941	1350	0.943	2850	0.250	4350	$3.5 \cdot 10^{-2}$
340	$< 10^{-5}$	640	0.985	940	0.941	1400	0.944	2900	0.261	4400	$1.9 \cdot 10^{-2}$
350	$< 10^{-5}$	650	0.984	950	0.940	1450	0.951	2950	0.271	4450	$8.1 \cdot 10^{-3}$
360	$< 10^{-5}$	660	0.982	960	0.939	1500	0.956	3000	0.275	4500	$2.9 \cdot 10^{-3}$
370	$< 10^{-5}$	670	0.981	970	0.939	1550	0.960	3050	0.269	4550	$1.0 \cdot 10^{-3}$
380	$< 10^{-5}$	680	0.980	980	0.938	1600	0.963	3100	0.256	4600	$3.0 \cdot 10^{-4}$
390	$< 10^{-5}$	690	0.978	990	0.938	1650	0.965	3150	0.241	4650	$9.6 \cdot 10^{-5}$
400	$< 10^{-5}$	700	0.976	1000	0.937	1700	0.966	3200	0.226	4700	$3.4 \cdot 10^{-5}$
410	$< 10^{-5}$	710	0.975	1010	0.937	1750	0.965	3250	0.211	4750	$1.5 \cdot 10^{-5}$
420	$< 10^{-5}$	720	0.973	1020	0.936	1800	0.964	3300	0.193	4800	$< 10^{-5}$
430	$< 10^{-5}$	730	0.971	1030	0.936	1850	0.962	3350	0.175	4850	$< 10^{-5}$
440	$< 10^{-5}$	740	0.969	1040	0.936	1900	0.959	3400	0.160	4900	$< 10^{-5}$
450	$< 10^{-5}$	750	0.968	1050	0.936	1950	0.957	3450	0.149	4950	$< 10^{-5}$
460	$< 10^{-5}$	760	0.966	1060	0.936	2000	0.955	3500	0.144	5000	$< 10^{-5}$
470	$< 10^{-5}$	770	0.964	1070	0.935	2050	0.953	3550	0.141	5050	$< 10^{-5}$
480	$2.8 \cdot 10^{-3}$	780	0.962	1080	0.935	2100	0.950	3600	0.139	5100	$< 10^{-5}$
490	0.218	790	0.960	1090	0.935	2150	0.945	3650	0.140	5150	$< 10^{-5}$

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