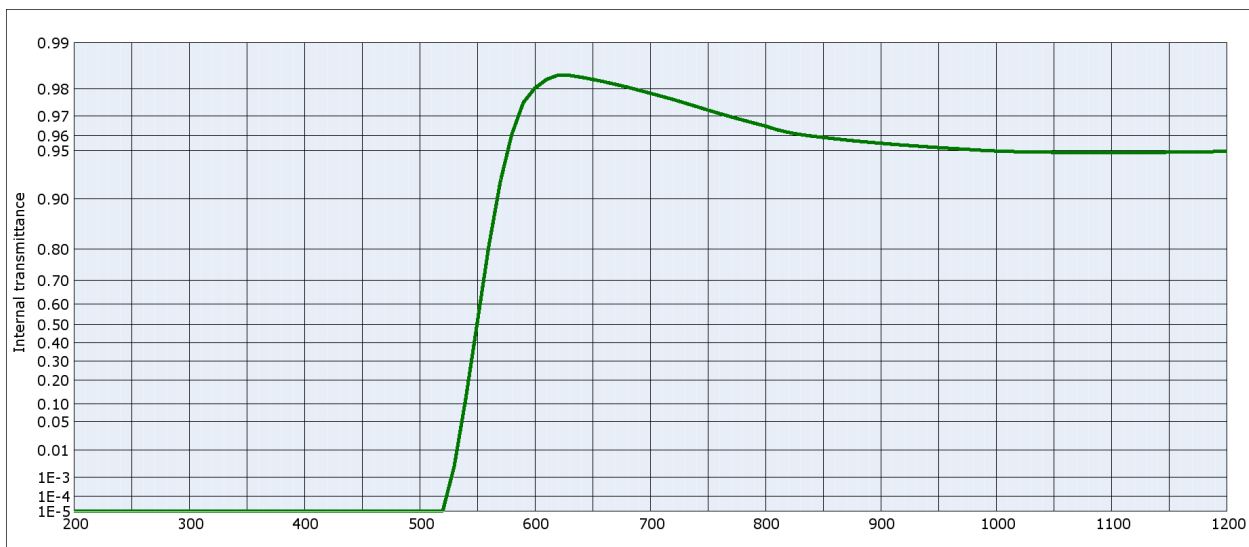


Data Sheet



OG550		Density		Notes	
		ρ [g/cm ³]	2.56	Colloidally colored glass	
		Bubble content		Longpass filter	
Reflection factor					
P _d	0.921	Bubble class		3	
Reference thickness		Chemical Resistance			
d [mm]	3	FR class	0		
		SR class	1.0		
		AR class	1.0		
Spectral values guaranteed		Transformation temperature			
λ_c ($\tau_i = 0.5$) [nm]	= 550 ± 6	T _g [°C]	507		
λ_s ($\tau_{i,U} = 10^{-5}$) [nm]	= 480	Thermal expansion			
λ_p ($\tau_{i,L} = 0.93$) [nm]	= 620	$\alpha_{30/+70^\circ\text{C}}$ [10 ⁻⁶ /K]	7.9		
		$\alpha_{20/300^\circ\text{C}}$ [10 ⁻⁶ /K]	9.0		
		$\alpha_{20/200^\circ\text{C}}$ [10 ⁻⁶ /K]			
Refractive Index n		Temperature coefficient			
n_e (546.1 nm) = 1.510		T _K [nm/°C]	0.12		
n_d (587.6 nm) = 1.510					
n_s (852.1 nm) = 1.510					
n_i (1014.0 nm) = 1.500					
				All data without 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)				Illuminant Planck T = 3200 K				Illuminant D65 (T _C = 6504 K)			
d [mm]	1	2	3	d [mm]	1	2	3	d [mm]	1	2	3
x	0.565	0.580	0.587	x	0.558	0.574	0.581	x	0.521	0.547	0.557
y	0.429	0.419	0.412	y	0.435	0.425	0.418	y	0.459	0.451	0.441
Y	70	65	62	Y	68	63	59	Y	58	52	49
λ_d [nm]	589	591	592	λ_d [nm]	588	590	591	λ_d [nm]	583	586	587
P _e	0.96	1.00	1.00	P _e	0.96	1.00	1.00	P _e	0.95	1.00	1.00



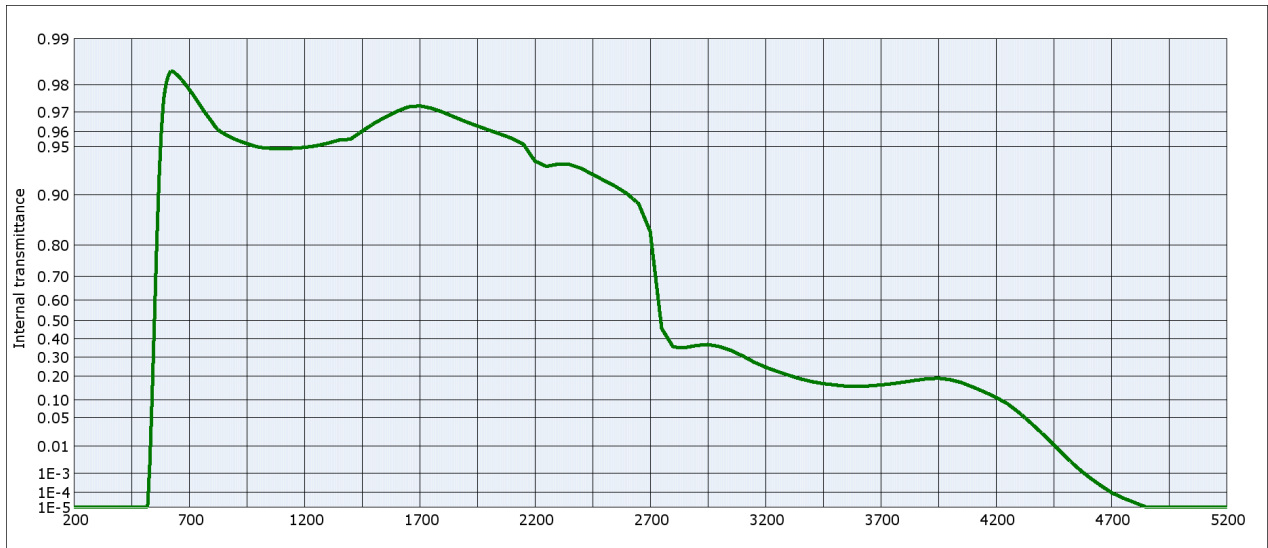
50mm SCHOTT OG550 Orange LONGPASS FILTER 3mm thick

<https://www.galvoptics.co.uk/optical-components/optical-filters/schott-longpass-filters/>

Please CLICK above link to buy ONLINE

OG550

SCHOTT



Internal transmittance τ_i at reference thickness $d = 3 \text{ mm}$ 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	$< 10^{-5}$	800	0.965	1100	0.949	2200	0.938	3700	0.160
210	$< 10^{-5}$	510	$< 10^{-5}$	810	0.963	1110	0.949	2250	0.934	3750	0.165
220	$< 10^{-5}$	520	$< 10^{-5}$	820	0.962	1120	0.949	2300	0.936	3800	0.173
230	$< 10^{-5}$	530	$2.8 \cdot 10^{-3}$	830	0.961	1130	0.949	2350	0.935	3850	0.181
240	$< 10^{-5}$	540	0.119	840	0.960	1140	0.949	2400	0.932	3900	0.188
250	$< 10^{-5}$	550	0.508	850	0.959	1150	0.949	2450	0.925	3950	0.190
260	$< 10^{-5}$	560	0.806	860	0.958	1160	0.949	2500	0.919	4000	0.184
270	$< 10^{-5}$	570	0.922	870	0.957	1170	0.949	2550	0.911	4050	0.171
280	$< 10^{-5}$	580	0.961	880	0.957	1180	0.949	2600	0.901	4100	0.151
290	$< 10^{-5}$	590	0.975	890	0.956	1190	0.949	2650	0.886	4150	0.131
300	$< 10^{-5}$	600	0.980	900	0.955	1200	0.950	2700	0.833	4200	0.110
310	$< 10^{-5}$	610	0.983	910	0.955	1250	0.951	2750	0.456	4250	$8.8 \cdot 10^{-2}$
320	$< 10^{-5}$	620	0.984	920	0.954	1300	0.953	2800	0.354	4300	$6.2 \cdot 10^{-2}$
330	$< 10^{-5}$	630	0.984	930	0.953	1350	0.955	2850	0.351	4350	$3.9 \cdot 10^{-2}$
340	$< 10^{-5}$	640	0.983	940	0.953	1400	0.955	2900	0.363	4400	$2.3 \cdot 10^{-2}$
350	$< 10^{-5}$	650	0.983	950	0.952	1450	0.960	2950	0.368	4450	$1.1 \cdot 10^{-2}$
360	$< 10^{-5}$	660	0.982	960	0.952	1500	0.964	3000	0.357	4500	$4.7 \cdot 10^{-3}$
370	$< 10^{-5}$	670	0.981	970	0.951	1550	0.968	3050	0.336	4550	$1.8 \cdot 10^{-3}$
380	$< 10^{-5}$	680	0.980	980	0.951	1600	0.970	3100	0.307	4600	$7.0 \cdot 10^{-4}$
390	$< 10^{-5}$	690	0.980	990	0.950	1650	0.972	3150	0.273	4650	$2.7 \cdot 10^{-4}$
400	$< 10^{-5}$	700	0.979	1000	0.950	1700	0.973	3200	0.246	4700	$1.0 \cdot 10^{-4}$
410	$< 10^{-5}$	710	0.978	1010	0.950	1750	0.972	3250	0.224	4750	$4.5 \cdot 10^{-5}$
420	$< 10^{-5}$	720	0.977	1020	0.949	1800	0.970	3300	0.206	4800	$2.3 \cdot 10^{-5}$
430	$< 10^{-5}$	730	0.975	1030	0.949	1850	0.968	3350	0.188	4850	$1.1 \cdot 10^{-5}$
440	$< 10^{-5}$	740	0.974	1040	0.949	1900	0.965	3400	0.175	4900	$< 10^{-5}$
450	$< 10^{-5}$	750	0.973	1050	0.949	1950	0.963	3450	0.166	4950	$< 10^{-5}$
460	$< 10^{-5}$	760	0.971	1060	0.949	2000	0.961	3500	0.160	5000	$< 10^{-5}$
470	$< 10^{-5}$	770	0.970	1070	0.949	2050	0.959	3550	0.155	5050	$< 10^{-5}$
480	$< 10^{-5}$	780	0.968	1080	0.949	2100	0.956	3600	0.153	5100	$< 10^{-5}$
490	$< 10^{-5}$	790	0.967	1090	0.949	2150	0.952	3650	0.156	5150	$< 10^{-5}$