

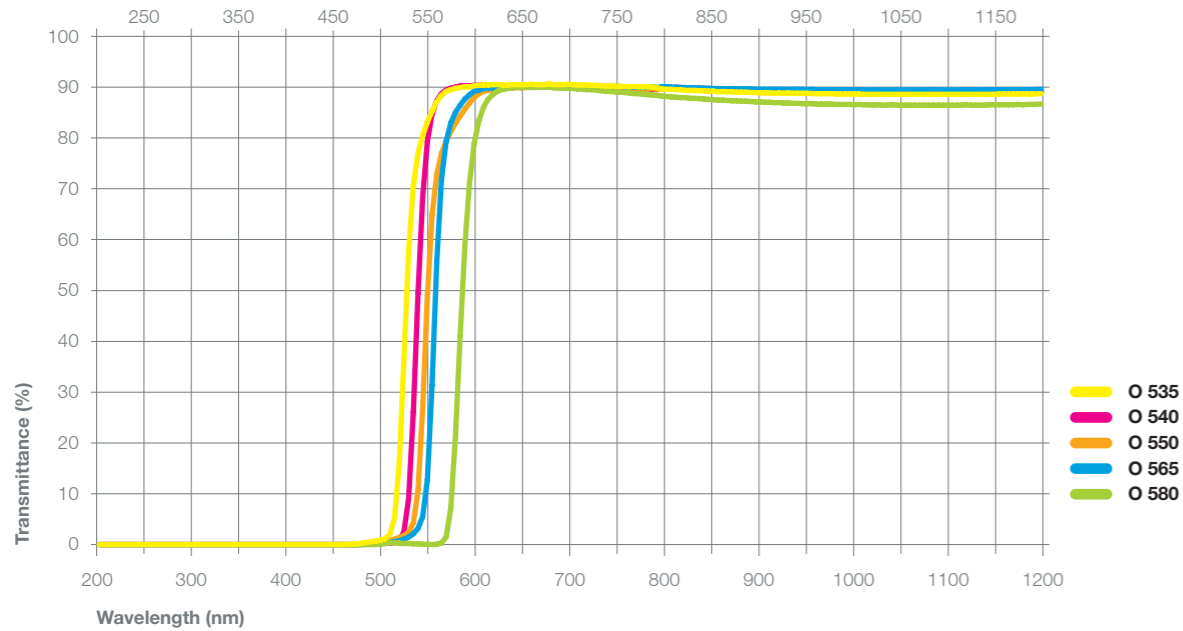
Glass Types

ORANGE	HEBO	Schott	Hoya
	O 530	≈ OG 530	
	O 540	≈ O-54	
	O 550	≈ OG 550	
	O 565	≈ OG 570	≈ O-56
	O 580	≈ OG 590	≈ O-58

Orange Glass Characteristics

Type	Thickness (mm)	A[2856K]			D65			Chemical Stability		N _D	α × 10 ⁻⁷ (°C)	T _g (°C)	T _s (°C)	ρ (g/cm ³)
		x	y	Y	x	y	Y	D _A	D _w					
O 530	2	0.549	0.448	82.2	0.504	0.492	70.2	3	2	1.523	103	527	605	2.64
O 540	2	0.572	0.427	72.9	0.537	0.461	59.3	3	2	1.523	103	527	605	2.64
O 550	2	0.594	0.405	63.6	0.569	0.430	48.4	3	2	1.523	103	527	605	2.64
O 565	2	0.622	0.377	51.6	0.605	0.395	36.7	3	2	1.523	103	527	605	2.64
O 580	2	0.658	0.342	35.9	0.649	0.351	23.3	1	2	1.523	103	527	605	2.64

Type	Thickness (mm)	λ _{tj} (nm)	λ _p (nm)	Tλ _p (%)	T _k (nm/°C)	Bubbles	Striae	Stress
O 530	2	530± 10	650	≥88.7	≥1.2	C-B	3C	3
O 540	2	540± 10	650	≥88.7	≥1.2	C-B	3C	3
O 550	2	550± 10	650	≥88.7	≥1.2	C-B	3C	3
O 565	2	565± 10	650	≥88.7	≥1.2	C-B	3C	3
O 580	2	580± 10	680	≥88.7	≥1.2	C-B	3C	3



	O 530	O 540	O 550	O 565	O 580
Thickness (mm)	2	2	2	2	2
Wavelength (nm)	%T	%T	%T	%T	%T
200	0,003	0,004	0,002	0,001	0,001
210	0,003	0,003	0,002	0,002	0,001
220	0,002	0,002	0,001	0,002	0,001
230	0,003	0,003	0,001	0,002	0,002
240	0,003	0,003	9·10 ⁻⁴	0,001	0,001
250	0,002	0,004	0,001	0,001	0,001
260	0,003	0,003	0,001	0,001	0,001
270	0,002	0,002	1·10 ⁻⁴	1·10 ⁻⁴	1·10 ⁻⁴
280	0,002	0,003	6·10 ⁻⁴	0,001	6·10 ⁻⁴
290	0,001	0,003	2·10 ⁻⁴	2·10 ⁻⁴	0,001
300	0,002	0,003	0,001	<10 ⁻⁵	0,001
310	0,003	0,004	0,001	4·10 ⁻⁴	0,001
320	0,002	0,005	0,001	1·10 ⁻⁴	2·10 ⁻⁴
330	0,004	0,005	0,002	0,001	0,003
340	0,004	0,003	0,001	0,001	0,002
350	0,003	0,003	1·10 ⁻⁴	0,001	0,001
360	0,003	0,003	7·10 ⁻⁴	5·10 ⁻⁴	0,001
370	0,002	0,003	8·10 ⁻⁴	0,001	0,001
380	0,003	0,004	0,001	9·10 ⁻⁴	0,001
390	0,002	0,003	3·10 ⁻⁴	7·10 ⁻⁴	9·10 ⁻⁴
400	0,002	0,003	3·10 ⁻⁴	1·10 ⁻⁴	0,001
410	0,003	0,003	4·10 ⁻⁴	0,001	0,001
420	0,004	0,004	0,002	0,002	0,002
430	0,003	0,003	0,001	3·10 ⁻⁴	0,001
440	0,004	0,004	0,002	0,002	0,001
450	0,006	0,003	0,002	0,001	0,001
460	0,019	0,004	0,004	0,002	0,001
470	0,077	0,013	0,013	0,008	0,001
480	0,264	0,057	0,058	0,031	0,001
490	0,559	0,182	0,161	0,096	0,007
500	0,856	0,227	0,344	0,220	0,077
510	2,034	0,273	0,768	0,408	0,324
520	15,971	0,808	1,416	0,771	0,316
530	57,739	9,165	2,426	1,509	0,184
540	77,057	49,486	10,598	3,168	0,106
550	83,125	79,305	49,076	12,774	0,035
560	87,127	87,319	72,870	55,541	0,060
570	89,176	89,426	79,384	79,327	1,511
580	89,815	90,041	82,891	85,060	21,406
590	90,079	90,271	85,661	87,664	58,755
600	90,296	90,392	88,041	89,199	78,940
610	90,411	90,402	89,178	89,711	86,118
620	90,506	90,411	89,555	89,856	88,565
630	90,415	90,286	89,752	89,957	89,485
640	90,513	90,382	89,821	90,051	89,840
650	90,520	90,358	89,891	90,086	90,000
660	90,556	90,364	89,962	90,144	90,032
670	90,499	90,305	90,018	90,199	89,989
680	90,618	90,302	90,011	90,272	90,007
690	90,509	90,225	90,009	90,218	89,861

	O 530	O 540	O 550	O 565	O 580
Thickness (mm)	2	2	2	2	2
Wavelength (nm)	%T	%T	%T	%T	%T
700	90,564	90,247	90,028	90,254	89,826
710	90,461	90,149	89,976	90,200	89,650
720	90,414	90,066	89,988	90,221	89,544
730	90,335	90,007	89,945	90,175	89,421
740	90,246	89,904	89,844	90,143	89,233
750	90,225	89,870	89,898	90,140	89,059
760	90,151	89,814	89,768	90,068	88,912
770	90,114	89,742	89,703	90,007	88,730
780	90,058	89,639	89,602	89,937	88,561
790	89,993	89,613	89,707	90,055	88,459
800	89,627	90,036	89,708	90,104	88,230
810	89,575	89,936	89,680	90,026	88,113
820	89,481	89,925	89,608	89,958	87,967
830	89,398	89,850	89,500	89,861	87,829
840	89,283	89,733	89,454	89,836	87,713
850	89,197	89,662	89,340	89,775	87,577
900	88,942	89,423	89,124	89,611	87,090
950	88,772	89,266	88,999	89,553	86,776
1000	88,677	89,164	88,896	89,492	86,597
1050	88,586	89,071	88,854	89,454	86,469
1065	88,593	89,065	88,878	89,445	86,471
1100	88,584	89,046	88,836	89,448	86,456
1200	88,704	89,127	88,937	89,560	86,642
1300	88,847	89,309	89,115	89,698	86,982
1400	88,932	89,372	89,166	89,697	87,351
1500	89,450	89,882	89,667	90,144	88,158
1600	89,781	90,182	89,936	90,345	88,783
1700	89,833	90,225	89,939	90,320	89,033
1800	89,592	89,973	89,666	90,006	88,915
1900	89,197	89,609	89,275	89,597	88,634
2000	88,684	89,109	88,711	89,069	88,242
2100	88,025	88,317	88,037	88,397	87,772
2200	86,699	87,144	86,630	87,004	86,676
2300	86,201	86,766	86,095	86,464	86,485
2400	85,726	86,124	85,597	85,963	86,078
2500	84,401	84,811	84,229	84,573	84,874
2600	83,433	83,792	83,177	83,551	84,105
2700	78,985	79,300	78,743	78,999	79,881
2800	35,457	34,387	35,770	35,392	35,235
2900	33,726	32,578	34,039	33,638	33,490
3000	31,419	30,360	31,620	31,274	31,780