

DATA SHEET

HOYA® O58

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

O58

Transmittance (T)		units: %																			
λ nm	T	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
λ nm	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λ nm	T	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
λ nm	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	7.4	38.9	69.7
λ nm	T	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
λ nm	T	83.0	87.7	89.4	90.0	90.3	90.4	90.4	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.5	90.6	90.5	90.6	90.5	90.5
λ nm	T	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
λ nm	T	90.4	90.5	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.5	90.6	90.5	90.6	90.7	90.8	90.6	90.7	90.8	90.7
λ nm	T	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
λ nm	T	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.9	90.8	90.8	90.9	90.9	90.9	90.9	90.9	91.0				

Refractive Index/Absorption coefficient/Reflection coefficient

λ nm	400	500	600	700	800	900	1000
n	1.550	1.540	1.531	1.526	1.524	1.522	1.520
K	1.1E-02	2.6E-03	1.5E-06	1.4E-14	2.1E-24	2.6E-34	1.1E-43
P	0.911	0.913	0.916	0.917	0.917	0.918	0.918

Classes of Bubbles and Inclusions

Bubble Class	3
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Color Specification

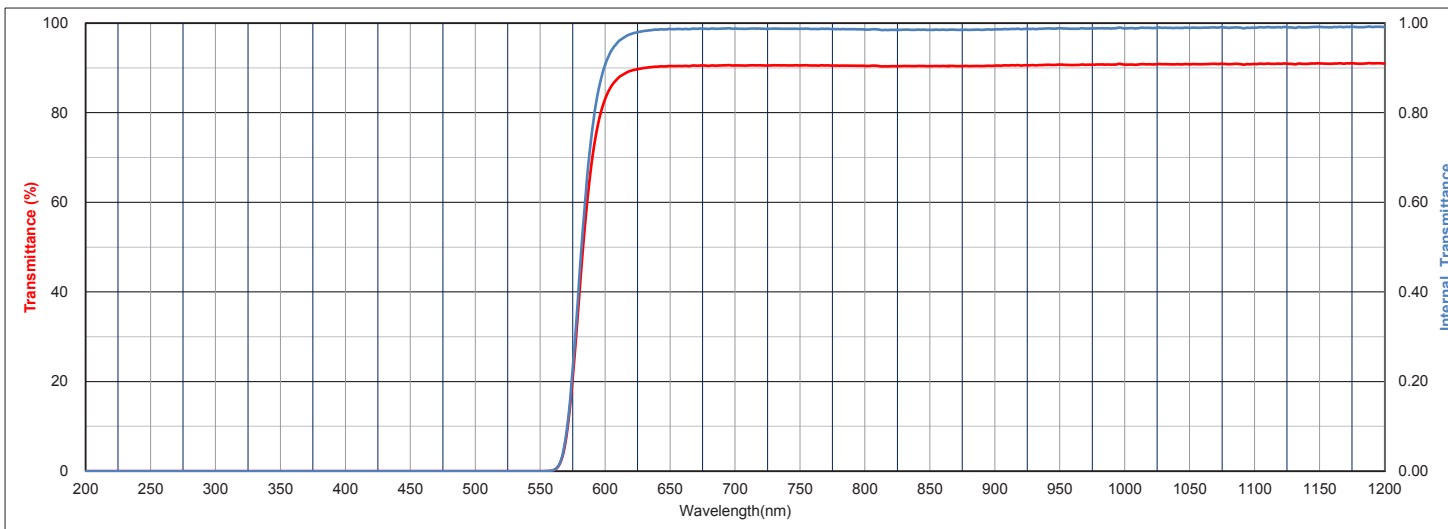
	x	y	Y	λ_s	P_s
A	0.654	0.346	35	606	100
C	0.643	0.356	24	604	100
D65	0.643	0.357	23	604	100

Properties

Chemical		Thermal				Mechanical		Others
D_w	D_k	Tg	Ts	$\alpha_{-30/70}$	$\alpha_{100/300}$	H_k	F_k	d
1	1	560	625	93	104	520	140	2.68

Tolerance of Transmittance (t)

λt (nm)	$\Delta \lambda$ (nm)	TH (%)
580±5	<25	>85



All data is mean values of various melts.

The content of this catalog is accurate as of April ,2014

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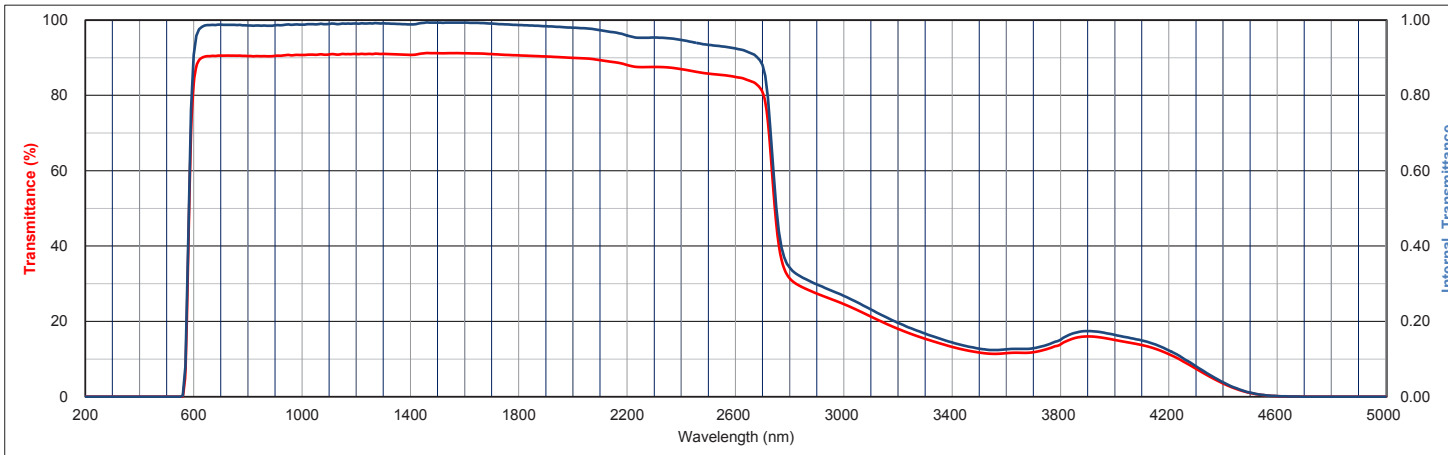
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Transmittance (T)		units: %																		
λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.2	7.4	38.9	69.7
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	83.0	87.7	89.4	90.0	90.3	90.4	90.4	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.5	90.6	90.5	90.6	90.5	90.5
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	90.4	90.5	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.4	90.5	90.6	90.5	90.6	90.7	90.8	90.6	90.7	90.8	90.7
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.9	90.8	90.8	90.9	91.0	90.9	90.8	90.9	91.0	90.9	91.0	90.9	91.0
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.1	91.0	91.0	91.0	91.0	91.0	90.9	90.9	90.9	90.9	90.8	90.8	90.8
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	90.8	90.8	90.8	91.0	91.1	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2	91.2
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	91.2	91.2	91.2	91.1	91.1	91.1	91.1	91.1	91.0	91.0	91.0	90.9	90.9	90.8	90.8	90.8	90.7	90.7	90.7	90.7
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	90.6	90.6	90.6	90.5	90.5	90.5	90.4	90.4	90.4	90.4	90.3	90.3	90.3	90.2	90.2	90.2	90.1	90.1	90.0	90.0
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	90.0	89.8	89.4	88.8	88.1	87.5	87.5	87.4	87.0	86.3	85.8	85.4	84.9	84.0	80.8	46.4	31.4	29.0	27.4	26.0
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	24.6	23.0	21.3	19.6	18.0	16.6	15.4	14.3	13.2	12.4	11.7	11.4	11.6	11.7	11.8	12.6	13.9	15.5	16.0	15.7
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	15.1	14.4	13.7	12.7	11.3	9.5	7.4	5.4	3.5	2.0	1.0	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	5000																			
T	0.0																			



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