

DATA SHEET

HOYA® O56

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

O56

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	0.4	9.6	41.3	69.9	82.8	87.5
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	89.2	89.9	90.2	90.3	90.4	90.5	90.4	90.5	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	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	90.5	90.5	90.4	90.4	90.4	90.5	90.4	90.4	90.4	90.5	90.6	90.6	90.6	90.6	90.7	90.8	90.8	90.7	90.7	90.8
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	90.8	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0	91.0	91.1	91.0	91.1				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.549	1.538	1.530	1.525	1.523	1.521	1.520
K	7.4E-03	1.1E-03	5.3E-08	3.3E-17	5.4E-28	1.1E-38	1.1E-48
P	0.911	0.914	0.916	0.917	0.918	0.918	0.918

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

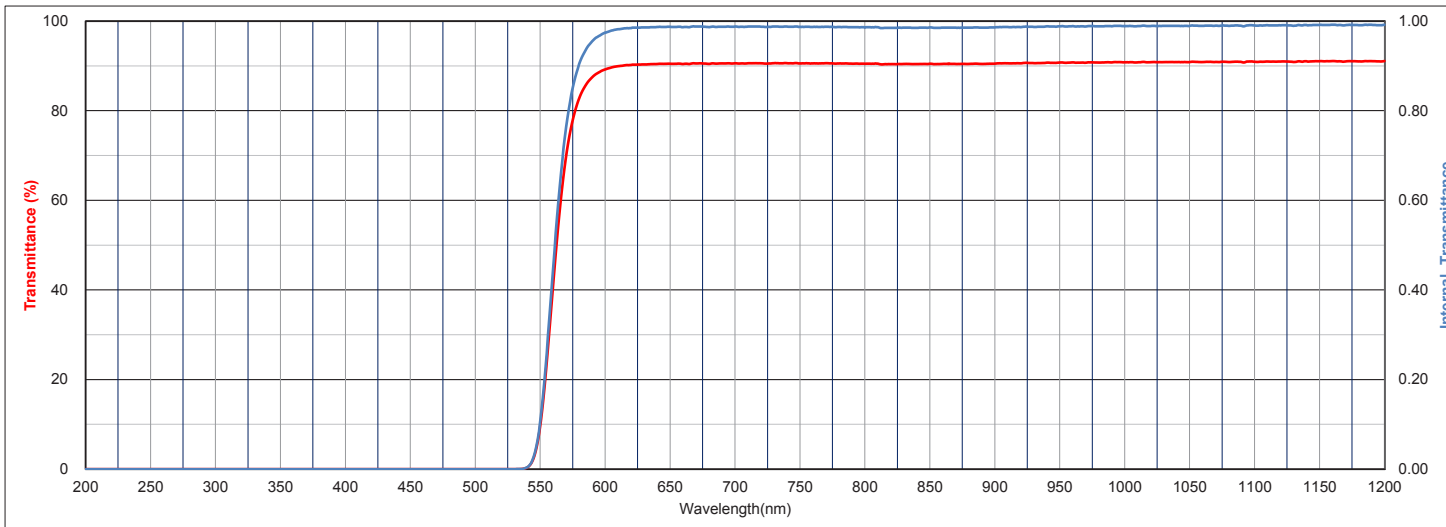
	x	y	Y	λ _s	P _s
A	0.610	0.389	51	597	100
C	0.588	0.412	39	592	100
D65	0.588	0.411	38	592	100

Properties

Chemical		Thermal				Mechanical		Others
D _w	D _k	T _g	T _s	α _{-30/70}	α _{100/300}	H _k	F _k	d
1	1	560	625	93	104	520	140	2.68

Tolerance of Transmittance (t)

λt (nm)	Δλ (nm)	TH (%)
560±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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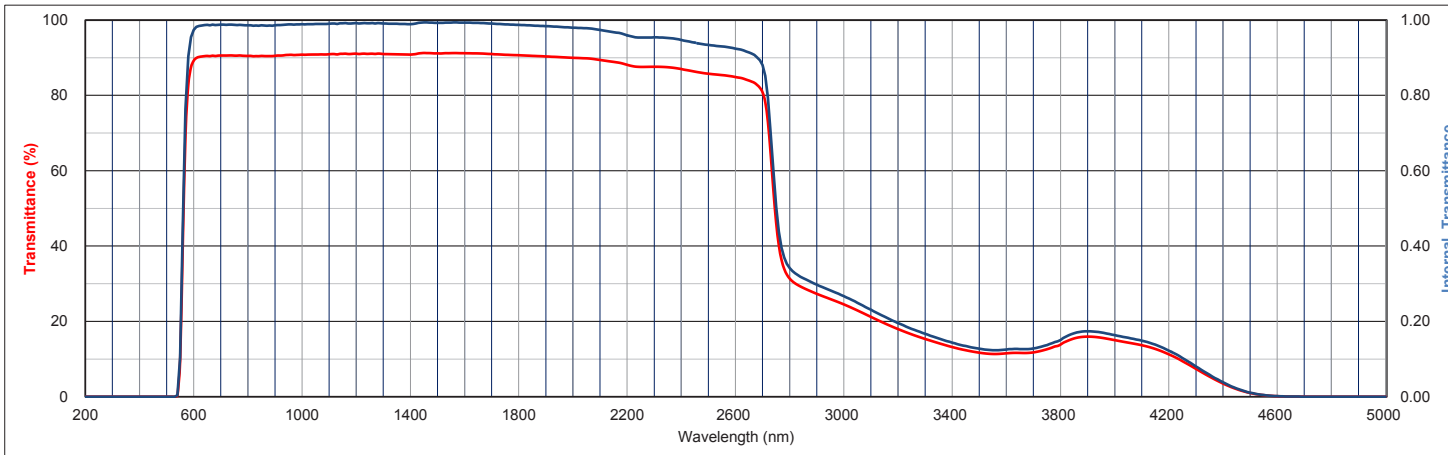
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λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
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	0.4	9.6	41.3	69.9	82.8	87.5
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	89.2	89.9	90.2	90.3	90.4	90.5	90.4	90.5	90.4	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	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	90.5	90.5	90.4	90.4	90.4	90.5	90.4	90.4	90.4	90.4	90.5	90.6	90.6	90.6	90.7	90.8	90.8	90.7	90.7	90.8
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	90.8	90.8	90.8	90.8	90.9	90.9	90.9	90.9	90.9	90.9	90.9	91.0	91.0	90.9	91.0	91.0	91.1	91.0	91.0	91.1
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	91.1	91.0	91.1	91.1	91.0	91.1	91.1	91.0	91.1	91.1	91.0	91.0	91.0	90.9	90.9	90.9	90.9	90.9	90.9	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	90.9	91.0	91.1	91.2	91.3	91.2	91.2	91.2	91.1	91.2	91.1	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	91.2	91.2	91.1	91.1	91.1	91.0	91.0	91.0	90.9	90.9	90.9	90.8	90.8	90.8	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	90.7	90.6	90.6	90.6	90.5	90.5	90.5	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	88.9	88.1	87.6	87.6	87.5	87.0	86.3	85.8	85.4	84.9	83.9	80.8	46.4	31.4	28.9	27.3	25.9
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	24.5	22.9	21.2	19.5	18.0	16.6	15.3	14.2	13.2	12.3	11.7	11.3	11.5	11.6	11.8	12.6	13.8	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	15.0	14.4	13.7	12.7	11.2	9.4	7.4	5.3	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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