

DATA SHEET

HOYA® V10

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

V10

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	1.0	6.5	62.4	75.9	82.5
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	85.9	87.3	86.1	63.2	47.5	56.2	59.5	49.4	44.1	75.3	74.2	51.8	52.2	24.4	65.9	84.5	81.3	5.2	3.0	1.5
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	24.2	56.7	86.8	84.6	88.7	89.6	89.5	84.7	77.3	77.7	88.0	89.3	86.5	67.3	5.6	8.7	43.6	69.5	67.8	32.2
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	9.0	3.5	38.8	67.2	83.7	85.7	71.0	49.1	30.5	57.8	74.3	83.7	86.9	89.8	90.4	90.3	90.0	89.8	89.6	88.9
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	88.9	89.2	89.7	90.2	90.5	90.8	91.1	91.2	91.3	91.3	91.4	91.5	91.5	91.6	91.5	91.5				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.551	1.538	1.530	1.526	1.523	1.522	1.520
K	3.1E-06	4.9E-06	3.2E-05	3.6E-06	5.9E-05	7.3E-06	2.4E-06
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

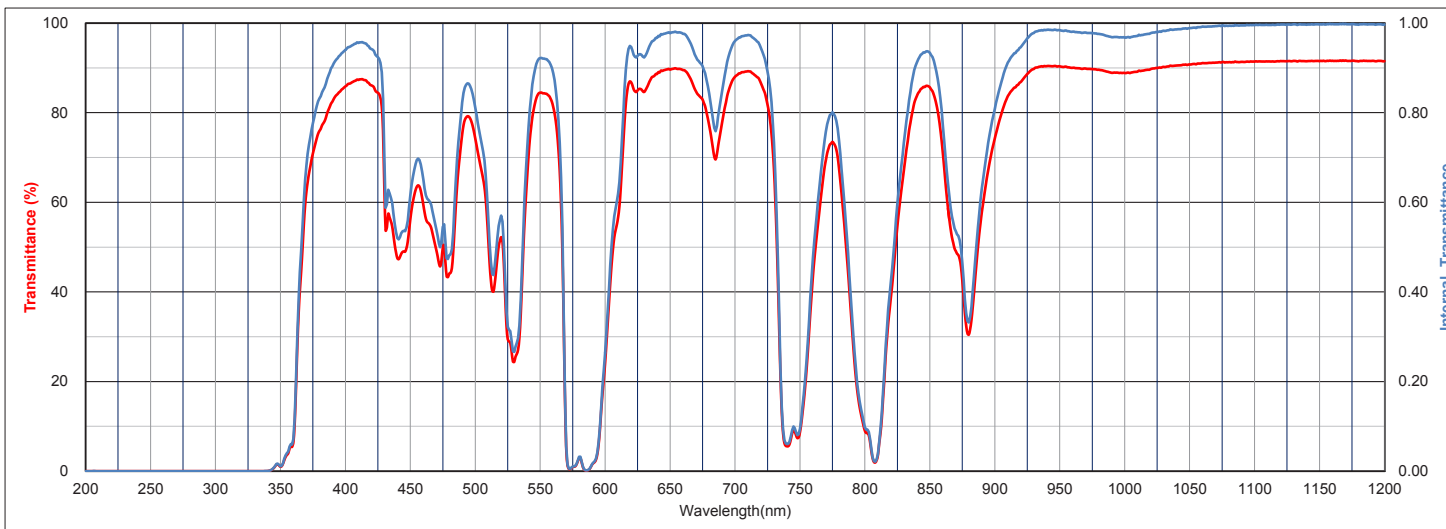
	x	y	Y	λ _s	P _s
A	0.453	0.383	48	-565	10
C	0.295	0.293	49	-572	7
D65	0.297	0.304	49	-571	7

Properties

Chemical		Thermal				Mechanical		Others
D _w	D _k	T _g	T _s	α _{-30/70}	α _{100/300}	H _k	F _k	d
4	1	500	545	103	117	520	130	2.87

Tolerance of Transmittance (T)

Transmittance at 550nm	Transmittance at 586nm
T550(%)	T586(%)
>80	<2



All data is mean values of various melts.

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

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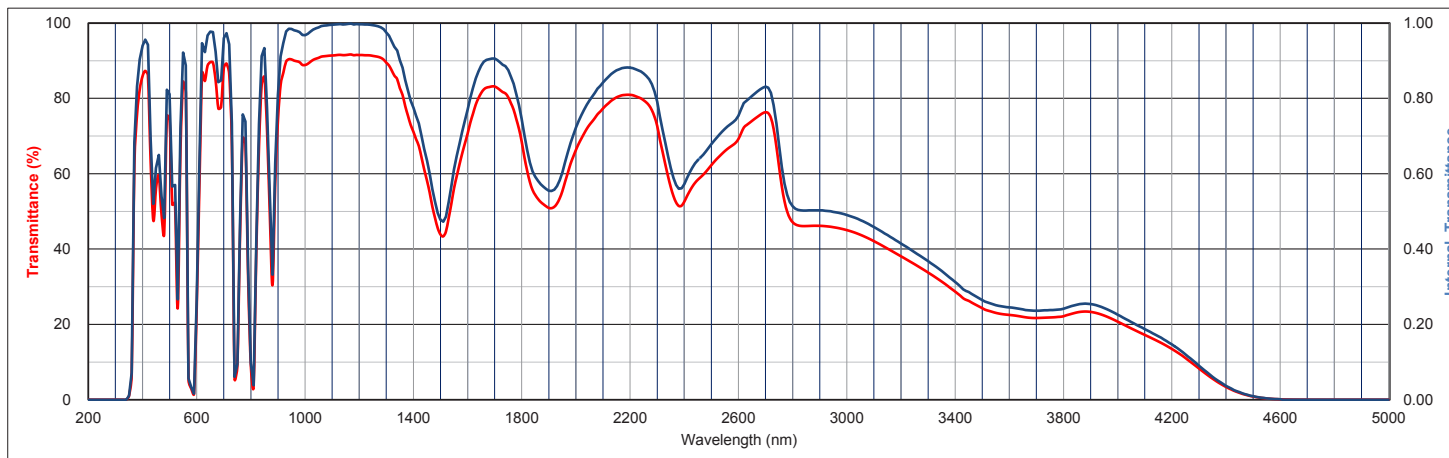
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λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.0	6.5	62.4	75.9	82.5
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	85.9	87.3	86.1	83.2	47.5	56.2	59.5	49.4	44.1	75.3	74.2	51.8	52.2	24.4	65.9	84.5	81.3	5.2	3.0	1.5
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	24.2	56.7	86.8	84.6	88.7	89.6	89.5	84.7	77.3	77.7	88.0	89.3	86.5	67.3	5.6	8.7	43.6	69.5	67.8	32.2
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	9.0	3.5	38.8	67.2	83.7	85.7	71.0	49.1	30.5	57.8	74.3	83.7	86.9	89.8	90.4	90.3	90.0	89.8	89.6	88.9
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	88.9	89.2	89.7	90.2	90.5	90.8	91.1	91.2	91.3	91.3	91.4	91.4	91.5	91.6	91.5	91.5	91.6	91.7	91.5	91.5
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	91.5	91.5	91.5	91.5	91.4	91.3	91.2	91.0	90.8	90.3	89.5	88.7	87.4	86.0	85.1	82.7	80.9	77.9	75.4	72.9
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	71.2	69.1	67.4	64.3	61.1	58.2	55.0	51.3	48.2	45.5	43.9	43.4	44.6	48.1	52.0	56.1	59.3	62.4	65.3	68.0
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	70.6	73.5	75.9	78.3	80.0	81.4	82.4	82.9	83.0	83.2	83.2	82.8	82.2	81.7	81.3	80.3	78.7	77.0	74.5	71.8
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	68.5	64.3	60.8	57.8	55.7	54.3	53.3	52.5	51.9	51.3	50.9	50.9	51.2	52.1	53.5	55.4	57.9	60.2	62.6	64.5
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	66.3	73.0	77.3	80.3	80.9	79.5	72.7	56.5	52.6	58.4	62.3	66.0	69.2	74.0	76.3	61.8	47.1	46.1	46.2	45.8
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	45.0	43.8	42.1	40.1	38.1	36.0	33.8	31.4	28.7	26.3	24.3	23.1	22.5	22.0	21.7	21.8	22.2	23.2	23.3	22.3
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	20.7	18.9	17.2	15.5	13.5	11.1	8.3	5.6	3.4	1.8	0.8	0.3	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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