

DATA SHEET

HOYA® LB-100

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness (-) mm

LB100

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	1.4	12.6	35.3	55.6	67.5	74.1	77.8	79.2	81.7
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	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
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	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
λ nm	T	40.6	41.5	42.5	43.4	44.3	45.2	46.1	47.0	47.8	48.6	49.4	50.8	52.2	53.3	54.4	55.3				

Refractive Index/Absorption coefficient/Reflection coefficient

λ nm	400	500	600	700	800	900	1000
n	1.541	1.537	1.534	1.533	1.532	1.531	1.531
K	2.3E-06	1.2E-05	2.4E-05	3.5E-05	4.2E-05	4.1E-05	3.5E-05
P	0.913	0.914	0.915	0.915	0.915	0.916	0.916

Classes of Bubbles and Inclusions

Bubble Class	3
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Color Specification

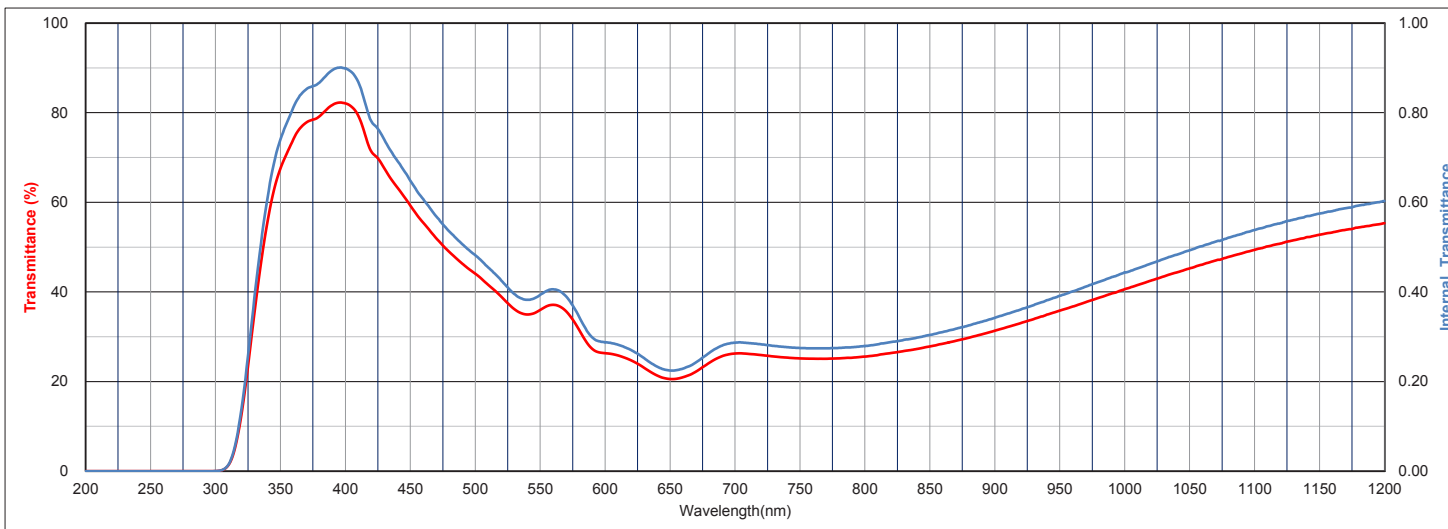
	x	y	Y	λ_s	P_s
A	0.380	0.384	32	489	17
C	0.250	0.252	35	476	29
D65	0.253	0.265	35	477	28

Properties

Chemical		Thermal				Mechanical		Others
D_w	D_A	Tg	Ts	$\alpha_{-30/70}$	$\alpha_{100/300}$	H_k	F_A	d
2	1	460	505	97	114	490	110	2.81

Tolerances of Transmittance(T)

B-R Conversion Value	V(mired)
	-100±5



All data is mean values of various melts.

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

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HOYA® LB-100

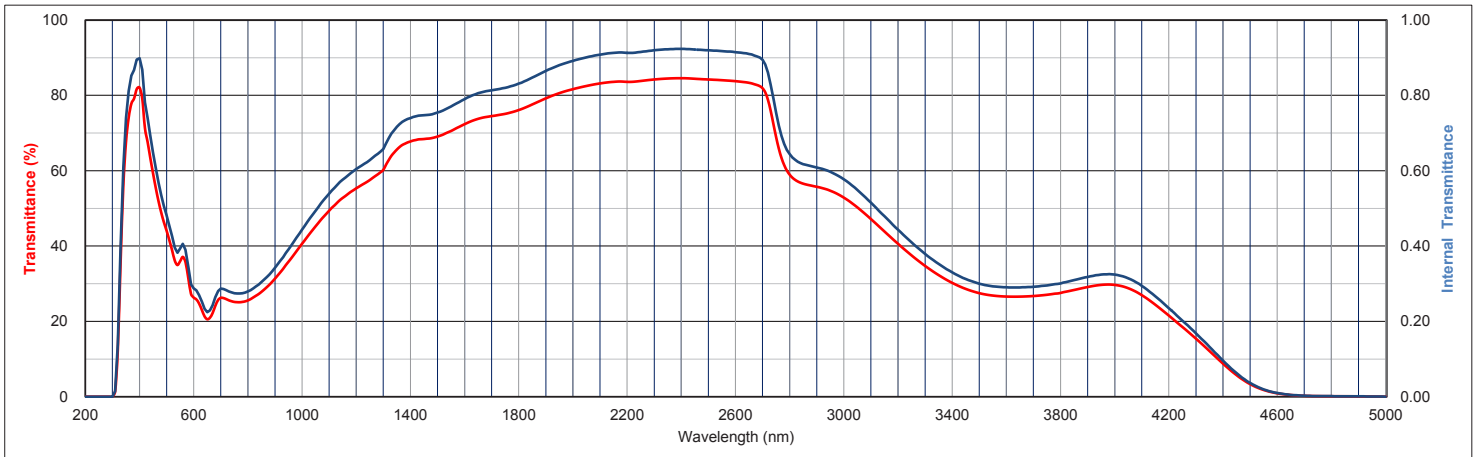
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λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	1.4	12.6	35.3	55.6	67.5	74.1	77.8	79.2	81.7
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	82.1	79.3	71.3	67.6	63.3	59.3	55.4	52.0	48.9	46.3	44.1	41.6	39.0	36.2	35.0	36.0	37.1	35.7	31.5	27.3
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	26.3	25.8	24.7	23.1	21.4	20.6	21.0	22.2	24.1	25.7	26.3	26.2	25.9	25.6	25.3	25.2	25.1	25.1	25.2	25.3
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	25.6	25.9	26.4	26.8	27.3	27.8	28.4	29.1	29.8	30.5	31.3	32.2	33.0	33.9	34.9	35.8	36.7	37.7	38.7	39.7
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	40.6	41.5	42.5	43.4	44.3	45.2	46.1	47.0	47.8	48.6	49.4	50.2	50.9	51.5	52.2	52.8	53.3	53.9	54.4	54.8
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	55.3	55.8	56.2	56.6	57.0	57.5	58.1	58.6	59.1	59.6	60.2	61.6	62.8	64.0	64.8	65.6	66.3	66.8	67.2	67.5
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	67.8	68.0	68.2	68.3	68.4	68.5	68.6	68.7	68.9	69.1	69.3	69.6	69.9	70.2	70.5	70.9	71.3	71.6	72.0	72.0
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	72.4	72.7	73.0	73.3	73.5	73.8	74.0	74.1	74.3	74.4	74.5	74.6	74.7	74.8	75.0	75.1	75.3	75.5	75.6	75.9
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	76.1	76.4	76.7	77.0	77.3	77.6	77.9	78.2	78.6	78.9	79.2	79.5	79.8	80.1	80.4	80.6	80.8	81.1	81.3	81.5
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	81.7	82.5	83.2	83.6	83.6	83.8	84.2	84.5	84.6	84.4	84.2	84.0	83.8	83.3	81.9	69.0	59.0	56.6	55.7	54.7
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	52.9	50.3	47.2	43.9	40.6	37.5	34.7	32.3	30.2	28.6	27.5	26.9	26.6	26.6	26.7	27.1	27.5	28.3	29.1	29.7
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	29.7	28.8	27.0	24.4	21.5	18.5	15.4	12.1	8.8	5.7	3.3	1.8	0.9	0.4	0.2	0.2	0.1	0.1	0.1	0.0
λnm	5000																			
T	0.0																			



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