

DATA SHEET

HOYA® LB-120

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness (-) mm

LB120

Transmittance (T)		units: %																			
λnm	T	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
λnm	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	8.3	28.7	50.0	63.5	71.2	75.7	77.3	80.4
λnm	T	81.1	78.1	69.4	65.6	61.3	57.2	53.3	49.7	46.5	43.7	41.2	38.5	35.7	32.6	31.3	32.1	33.2	31.5	27.1	22.9
λnm	T	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
λnm	T	21.8	21.2	20.0	18.4	16.8	16.0	16.3	17.3	19.0	20.3	20.7	20.6	20.3	20.0	19.7	19.5	19.4	19.4	19.4	19.5
λnm	T	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
λnm	T	19.7	20.0	20.4	20.8	21.2	21.7	22.3	22.9	23.6	24.3	25.0	25.8	26.7	27.5	28.5	29.3	30.3	31.2	32.2	33.2
λnm	T	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
λnm	T	34.1	35.1	36.1	37.1	38.0	38.9	39.8	40.7	41.6	42.4	43.2	44.8	46.3	47.5	48.7	49.7				

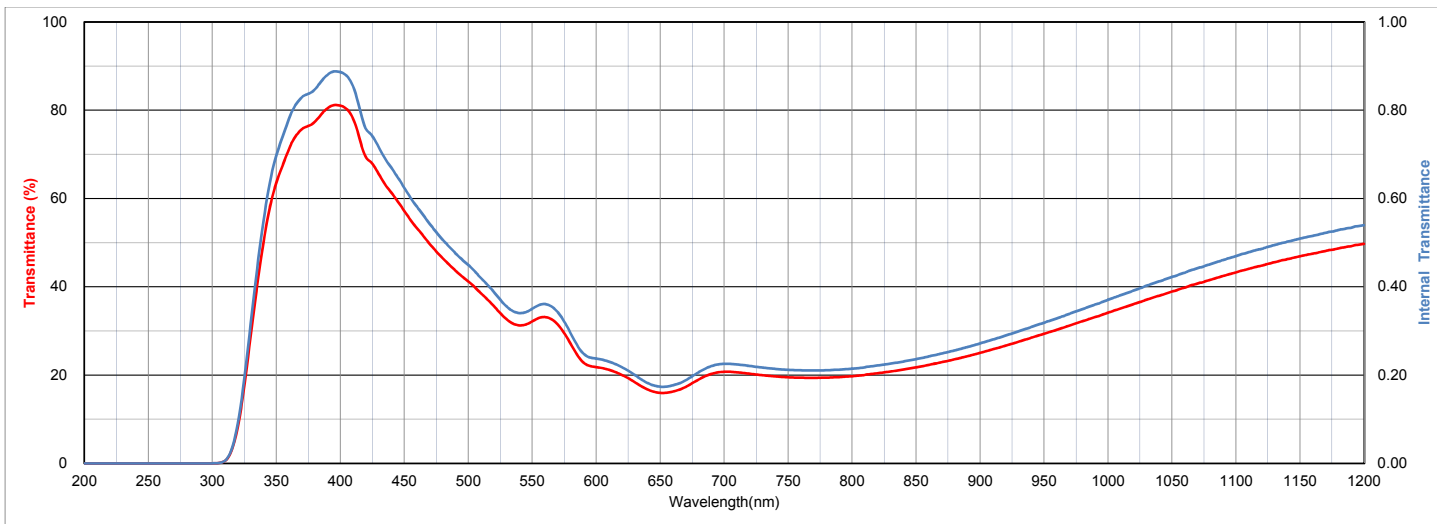
Refractive Index/Absorption coefficient/Reflection coefficient							
λnm	400	500	600	700	800	900	1000
n	1.537	1.524	1.517	1.513	1.510	1.509	1.507
K	2.0E-06	1.3E-05	2.9E-05	3.5E-05	4.1E-05	3.9E-05	3.3E-05
P	0.914	0.917	0.919	0.920	0.921	0.921	0.921

Classes of Bubbles and Inclusions	
Bubble Class	
3	

Color Specification					
	x	y	Y	λ _v	P _v
A	0.365	0.379	28	489	21
C	0.240	0.242	31	476	34
Des	0.243	0.255	31	477	33

Properties								
Chemical		Thermal			Mechanical		Others	
D _w	D _A	T _g	T _s	α _{-30/70}	α _{100/300}	H _k	F _A	d
2	1	480	535	94	105	520	130	2.57

Tolerances of Transmittance(T)	
B-R Conversion Value	
V(mired)	
-120±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-120

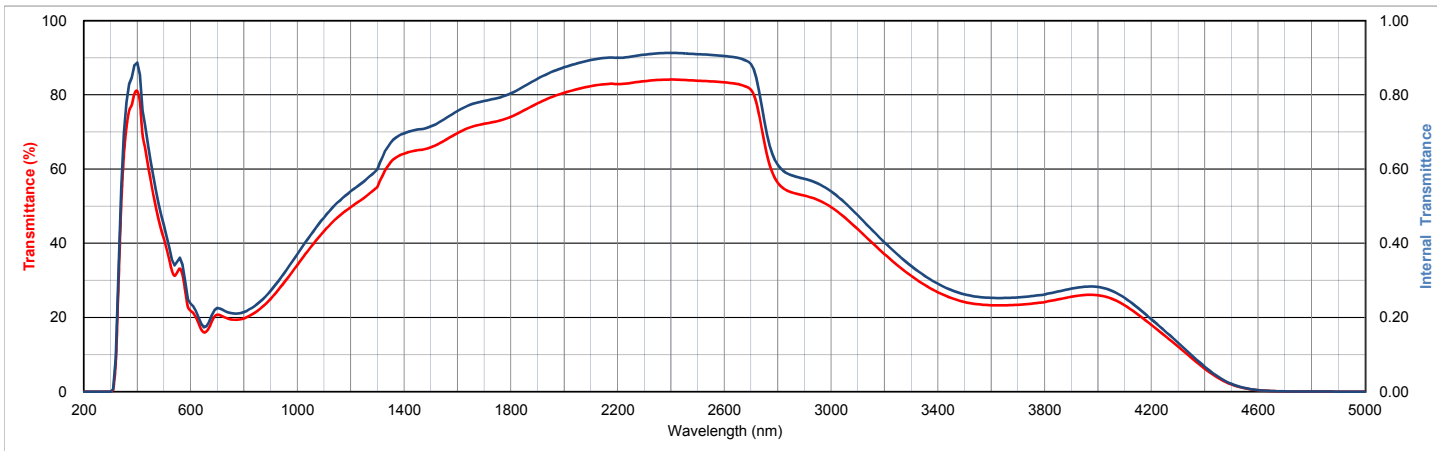
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LB120

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	0.6	8.3	28.7	50.0	63.5	71.2	75.7	77.3	80.4
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	81.1	78.1	69.4	65.6	61.3	57.2	53.3	49.7	46.5	43.7	41.2	38.5	35.7	32.6	31.3	32.1	33.2	31.5	27.1	22.9
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	21.8	21.2	20.0	18.4	16.8	16.0	16.3	17.3	19.0	20.3	20.7	20.6	20.3	20.0	19.7	19.5	19.4	19.4	19.4	19.5
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	19.7	20.0	20.4	20.8	21.2	21.7	22.3	22.9	23.6	24.3	25.0	25.8	26.7	27.5	28.5	29.3	30.3	31.2	32.2	33.2
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	34.1	35.1	36.1	37.1	38.0	38.9	39.8	40.7	41.6	42.4	43.2	44.1	44.8	45.6	46.3	46.9	47.5	48.1	48.7	49.2
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	49.7	50.2	50.7	51.2	51.7	52.2	52.8	53.4	53.9	54.6	55.2	56.9	58.3	59.8	60.9	61.9	62.6	63.1	63.5	63.9
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	64.1	64.4	64.6	64.8	64.9	65.1	65.1	65.2	65.4	65.6	65.9	66.1	66.4	66.8	67.2	67.6	68.0	68.5	68.9	69.3
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	69.7	70.1	70.4	70.7	71.0	71.3	71.5	71.7	71.9	72.0	72.2	72.3	72.4	72.6	72.7	72.9	73.1	73.3	73.5	73.8
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	74.1	74.4	74.7	75.1	75.4	75.8	76.2	76.6	77.0	77.3	77.7	78.0	78.4	78.7	79.0	79.3	79.6	79.8	80.1	80.3
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	80.5	81.5	82.3	82.9	82.9	83.2	83.7	84.0	84.1	84.0	83.8	83.6	83.4	82.9	81.3	67.2	56.3	53.8	52.8	51.7
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	49.7	47.0	43.8	40.4	37.1	34.0	31.2	28.8	26.8	25.3	24.2	23.6	23.3	23.4	23.7	24.1	24.8	25.6	26.1	
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	26.0	25.1	23.3	20.8	18.0	15.1	12.2	9.1	6.2	3.7	2.0	0.9	0.4	0.2	0.1	0.0	0.0	0.0	0.0	0.0
λnm	5000																			
T	0.0																			



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