

DATA SHEET

HOYA® L38

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

L38

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	0.6	15.2	43.8	63.9
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	74.8	80.4	83.3	84.9	85.9	86.4	86.8	87.1	87.4	87.6	87.7	87.8	87.9	88.0	88.1	88.2	88.3	88.3	88.3	88.4
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.7	88.7	88.8	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	89.0	89.0	89.0	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.3	89.3	89.3	89.3	89.4	89.5	89.5	89.5	89.5	89.6
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.8	89.8	89.8	89.8	89.8	89.9	89.9				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.576	1.565	1.560	1.557	1.555	1.553	1.552
K	2.3E-06	6.7E-07	4.5E-07	3.4E-07	2.7E-07	2.2E-07	1.9E-07
P	0.905	0.907	0.909	0.910	0.910	0.910	0.911

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

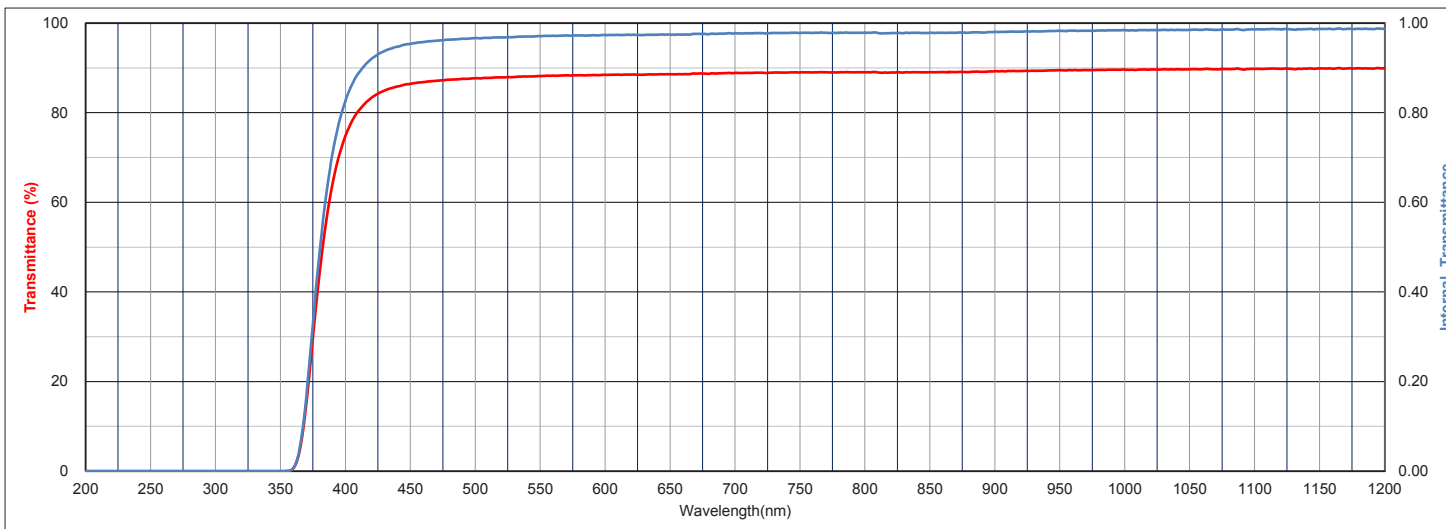
	x	y	Y	λ _s	P _s
A	0.449	0.408	88	583	2
C	0.312	0.319	88	573	1
D65	0.315	0.332	88	572	1

Properties

Chemical		Thermal				Mechanical		Others
D _w	D _k	T _g	T _s	α _{-30/70}	α _{100/300}	H _k	F _k	d
2	1	480	535	79	86	490	130	2.96

Tolerance of Transmittance (t)

λt (nm)	Δλ (nm)	TH (%)
380±5	<35	>85



All data is mean values of various melts.

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

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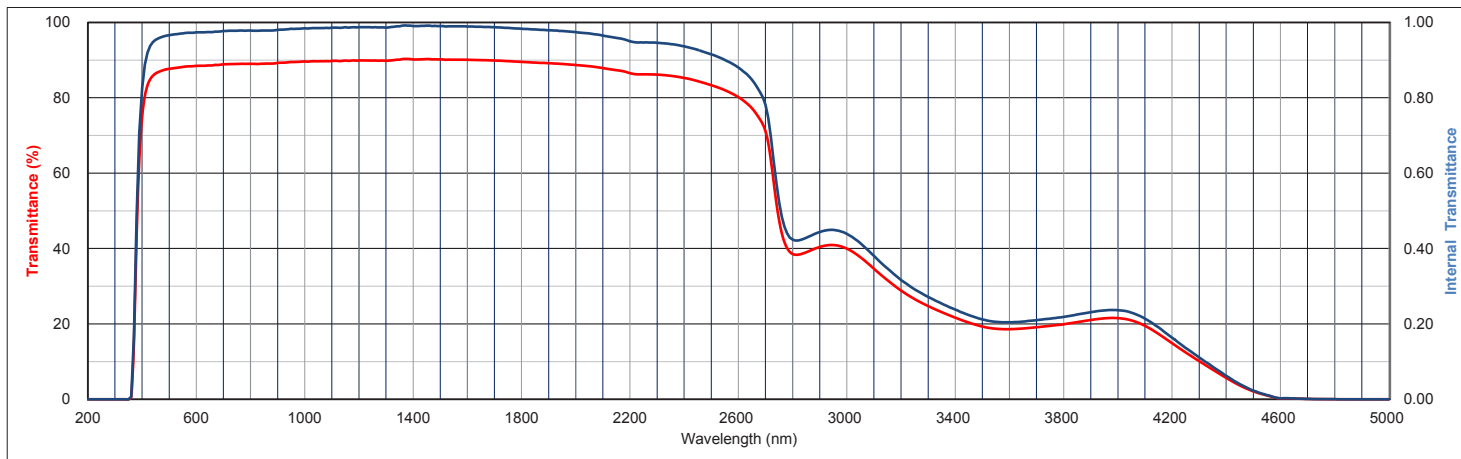
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λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.6	15.2	43.8	63.9
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	74.8	80.4	83.3	84.9	85.9	86.4	86.8	87.1	87.4	87.6	87.7	87.8	87.9	88.0	88.1	88.2	88.3	88.3	88.3	88.4
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.7	88.7	88.8	88.9	88.9	88.9	89.0	89.0	89.0	89.0	89.0	89.0	89.0
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	89.0	89.0	89.0	89.0	89.0	89.0	89.1	89.1	89.1	89.1	89.3	89.3	89.3	89.3	89.4	89.5	89.5	89.5	89.5	89.6
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	89.6	89.6	89.6	89.7	89.7	89.7	89.7	89.7	89.7	89.7	89.8	89.8	89.8	89.7	89.8	89.9	89.8	89.8	89.9	89.9
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	89.9	89.9	89.9	89.9	89.9	89.9	89.9	89.8	89.9	89.9	89.8	89.9	89.9	90.0	90.1	90.1	90.3	90.3	90.3	90.3
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	90.2	90.2	90.2	90.2	90.2	90.3	90.3	90.2	90.2	90.2	90.2	90.2	90.1	90.1	90.1	90.1	90.1	90.1	90.1	90.1
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	90.1	90.1	90.0	90.0	90.0	90.0	90.0	90.0	89.9	89.9	89.9	89.8	89.8	89.8	89.8	89.7	89.7	89.6	89.6	89.6
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	89.5	89.5	89.5	89.4	89.4	89.3	89.3	89.3	89.3	89.2	89.2	89.2	89.1	89.1	89.0	89.0	88.9	88.9	88.8	88.8
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	88.7	88.4	87.9	87.3	86.5	86.2	86.1	85.8	85.3	84.4	83.3	82.0	80.2	77.2	71.1	47.6	38.6	39.0	40.4	40.9
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	40.0	37.7	34.6	31.6	28.9	26.6	24.7	23.1	21.7	20.3	19.3	18.7	18.6	18.8	19.1	19.5	19.9	20.5	21.0	21.5
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	21.5	20.9	19.5	17.3	14.9	12.4	10.1	7.9	5.7	3.7	2.1	1.0	0.2	0.2	0.1	0.0	0.0	0.0	0.0	0.0
λnm	5000																			
T	0.0																			



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