

DATA SHEET

HOYA® L39

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

L39

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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	22.2	45.7
λ_{nm}	T	63.0	73.3	79.1	82.3	84.2	85.2	85.9	86.4	86.7	87.0	87.1	87.3	87.4	87.5	87.6	87.8	87.9	88.0	88.0	88.1	88.1
λ_{nm}	T	88.1	88.2	88.2	88.2	88.3	88.3	88.3	88.4	88.4	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.7	88.6	88.6	88.6
λ_{nm}	T	88.6	88.7	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.8	88.8	88.9	89.0	89.0	89.2	89.2	89.2	89.1	89.2	89.2	89.3
λ_{nm}	T	89.3	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.5	89.5	89.5	89.5	89.6	89.6	89.6					

Refractive Index/Absorption coefficient/Reflection coefficient

λ_{nm}	n	K	P
400	1.615	4.1E-06	0.895
500	1.597	1.8E-07	0.900
600	1.588	4.7E-08	0.902
700	1.583	1.7E-08	0.903
800	1.580	7.8E-09	0.904
900	1.578	4.2E-09	0.905
1000	1.577	2.6E-09	0.905

Classes of Bubbles and Inclusions

Bubble Class	3
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Color Specification

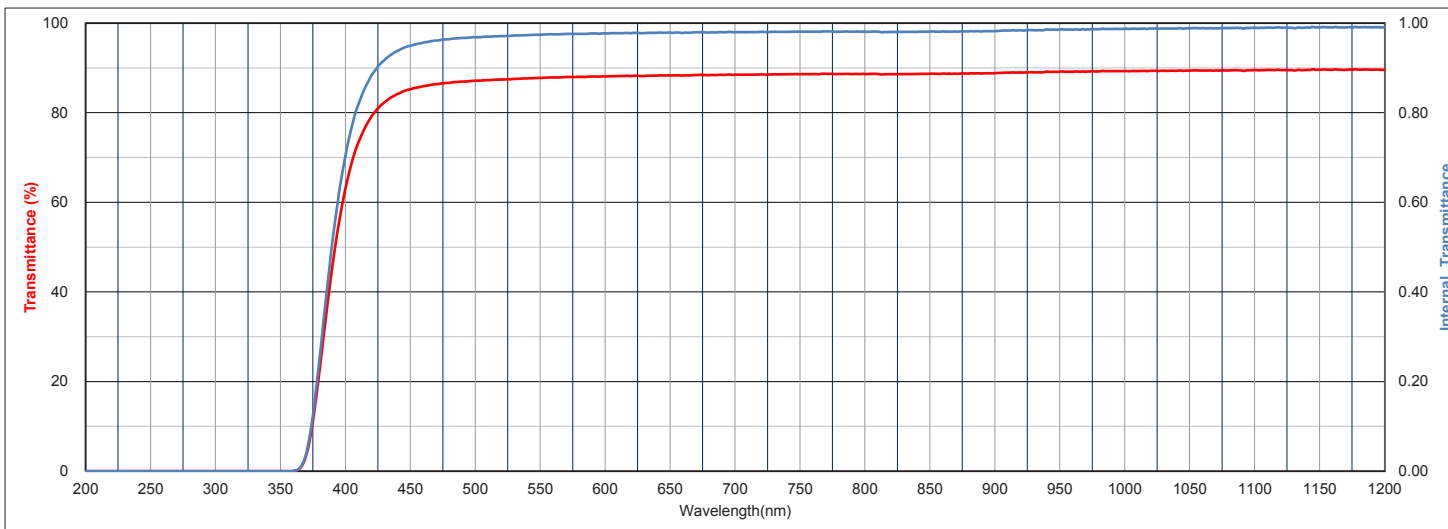
	x	y	Y	λ_s	P_s
A	0.450	0.409	88	582	3
C	0.313	0.321	88	572	2
D65	0.316	0.334	88	571	2

Properties

Chemical		Thermal				Mechanical		Others
D_w	D_k	Tg	Ts	$\alpha_{-30/70}$	$\alpha_{100/300}$	H_k	F_k	d
2	1	440	490	90	100	460	170	3.29

Tolerance of Transmittance (t)

λt (nm)	$\Delta \lambda$ (nm)	TH (%)
390±5	<40	>85



All data is mean values of various melts.

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

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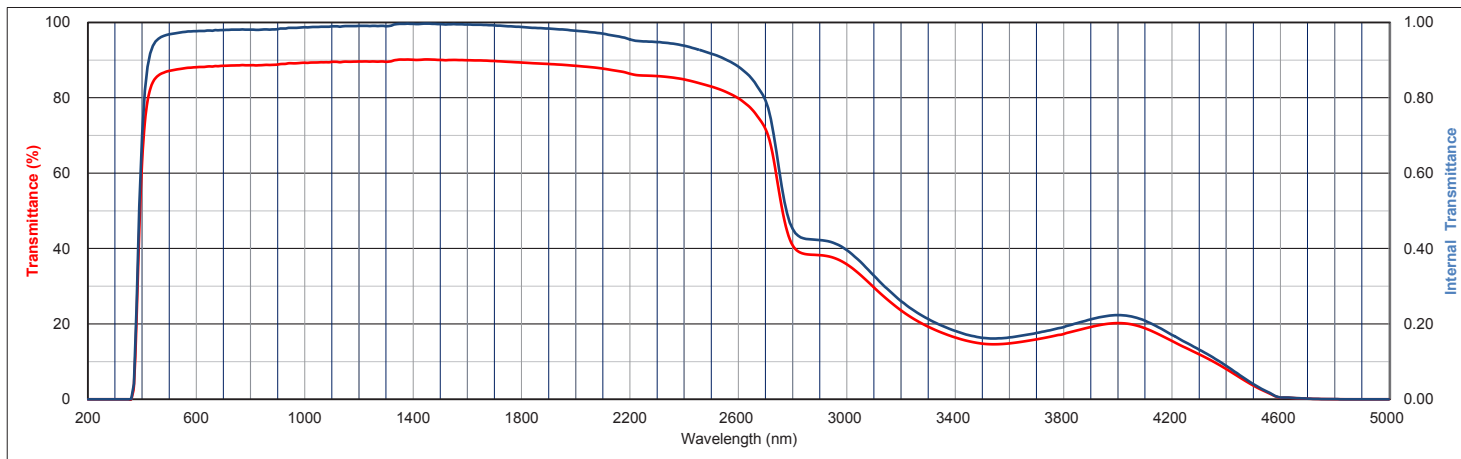
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λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	3.7	22.2	45.7
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	
T	63.0	73.3	79.1	82.3	84.2	85.2	85.9	86.4	86.7	87.0	87.1	87.3	87.4	87.5	87.6	87.8	87.9	88.0	88.0	88.1	
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790	
T	88.1	88.2	88.2	88.2	88.3	88.3	88.3	88.4	88.4	88.5	88.5	88.5	88.5	88.6	88.6	88.6	88.6	88.7	88.6	88.6	
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990	
T	88.6	88.7	88.6	88.6	88.6	88.7	88.7	88.7	88.7	88.8	88.8	88.9	89.0	89.0	89.2	89.2	89.1	89.2	89.2	89.3	
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190	
T	89.3	89.3	89.3	89.4	89.4	89.4	89.4	89.4	89.4	89.4	89.5	89.5	89.5	89.4	89.5	89.6	89.6	89.6	89.6	89.6	
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390	
T	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.6	89.5	89.6	89.7	89.9	90.0	90.1	90.1	90.1	90.2	90.1	
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590	
T	90.1	90.0	90.1	90.1	90.2	90.2	90.2	90.1	90.1	90.1	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	90.0	
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790	
T	90.0	90.0	89.9	89.9	89.9	89.9	89.9	89.9	89.8	89.8	89.8	89.7	89.7	89.6	89.6	89.5	89.5	89.5	89.4	89.4	
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990	
T	89.4	89.3	89.3	89.2	89.2	89.1	89.1	89.1	89.0	89.0	89.0	88.9	88.9	88.8	88.8	88.7	88.7	88.6	88.6	88.5	
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950	
T	88.5	88.2	87.7	87.2	86.4	85.9	85.8	85.4	84.9	84.0	83.0	81.7	79.9	76.9	71.7	55.1	40.9	38.5	38.2	37.6	
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950	
T	35.8	33.0	29.7	26.4	23.6	21.2	19.3	17.7	16.4	15.4	14.8	14.6	14.8	15.3	15.9	16.6	17.3	18.3	19.2	19.9	
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950	
T	20.2	19.9	18.8	17.3	15.5	13.7	11.9	10.1	8.0	5.8	3.6	1.9	0.4	0.3	0.2	0.1	0.0	0.0	0.0	0.0	
λnm	5000																				
T	0.0																				



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