

DATA SHEET

HOYA® E-B390

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

E-B390

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	0.1	2.9	16.0	35.9	53.2	64.9	71.3	75.4	78.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	78.0	76.2	73.5	69.0	63.3	55.6	45.7	31.1	16.1	6.2	2.3	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.5	1.8	3.2	3.8	3.9	3.8	3.7	3.5	3.4	3.3	3.3
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	3.3	3.3	3.4	3.5	3.5	3.7	3.8	4.0	4.2	4.4	4.7	5.0	5.3	5.7	6.0	6.4	6.8	7.2	7.6	8.0
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	8.5	8.9	9.2	9.6	9.9	10.1	10.2	10.3	10.3	10.2	9.9	9.2	8.2	7.0	5.8	4.7				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.528	1.519	1.514	1.512	1.510	1.509	1.508
K	2.3E-06	5.8E-05	1.5E-04	9.0E-05	9.6E-05	9.6E-05	9.0E-05
P	0.916	0.919	0.920	0.920	0.921	0.921	0.921

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

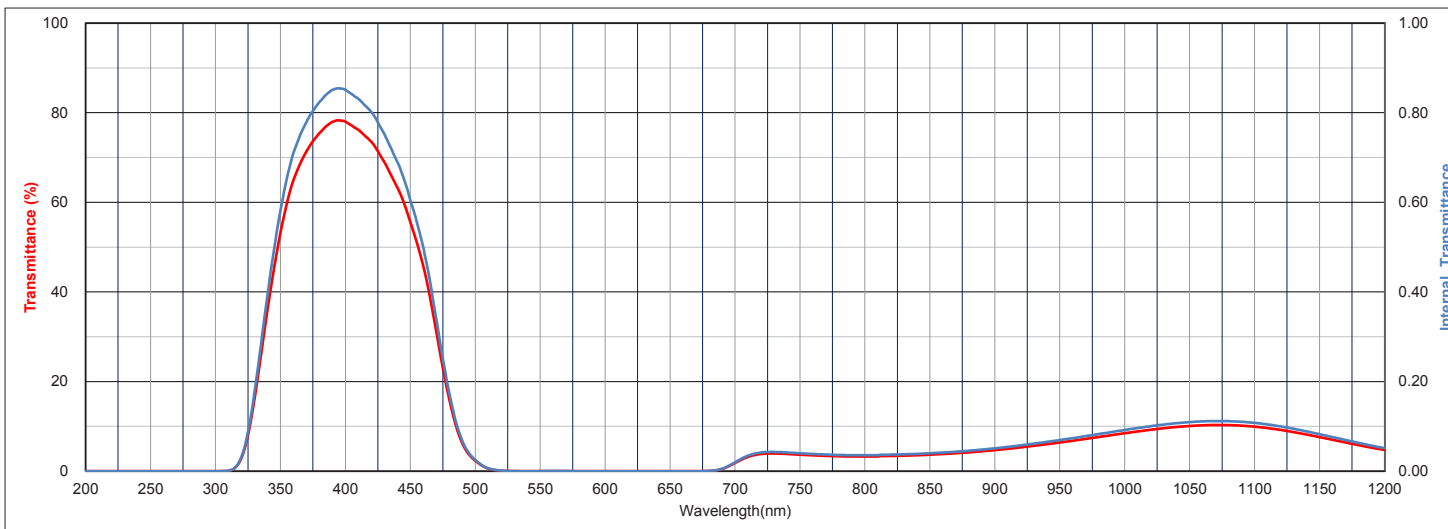
	x	y	Y	λ _d	P _e
A	-	-	-	-	-
C	-	-	-	-	-
D65	-	-	-	-	-

Properties

Chemical		Thermal				Mechanical		Others
D _w	D _k	T _g	T _s	α _{-30/70}	α _{100/300}	H _k	F _k	d
1	1	485	535	92	104	510	110	2.57

Tolerance of Transmittance (T)

Maximum Transmittance	Less than 1% Wavelength at Short wave Side	Less than 5% Wavelength at Long wave Side
Tmax(%)	λs1(nm)	λl5(nm)
78±3	>310	<510



All data is mean values of various melts.

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

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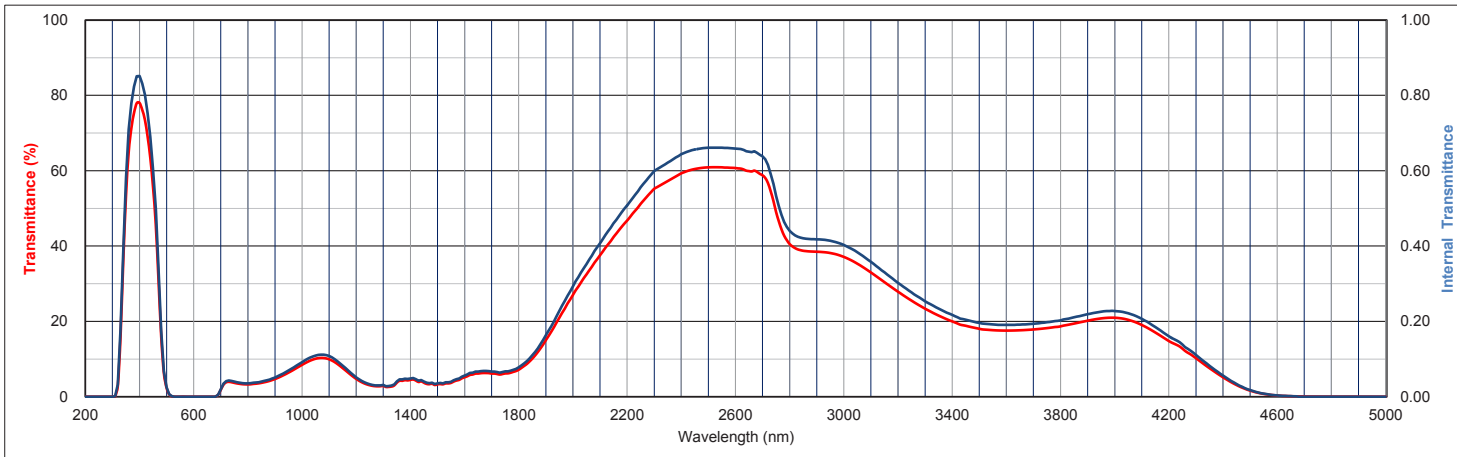
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Transmittance (T)		units: %																			
λnm	T	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
λnm	T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	2.9	16.0	35.9	53.2	64.9	71.3	75.4	78.0	
λnm	T	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
λnm	T	78.0	76.2	73.5	69.0	63.3	55.6	45.7	31.1	16.1	6.2	2.3	0.6	0.1	0.0	0.0	0.0	0.0	0.0	0.0	
λnm	T	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
λnm	T	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
λnm	T	3.3	3.3	3.4	3.5	3.5	3.7	3.8	4.0	4.2	4.4	4.7	5.0	5.3	5.7	6.0	6.4	6.8	7.2	7.6	8.0
λnm	T	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
λnm	T	8.5	8.9	9.2	9.6	9.9	10.1	10.2	10.3	10.3	10.2	9.9	9.6	9.2	8.7	8.2	7.6	7.0	6.4	5.8	5.2
λnm	T	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
λnm	T	4.7	4.3	3.9	3.5	3.3	3.0	2.9	2.8	2.8	2.8	2.9	2.6	2.6	2.7	3.0	3.7	4.2	4.2	4.4	4.3
λnm	T	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
λnm	T	4.5	4.6	4.3	3.9	4.1	3.7	3.4	3.3	3.4	3.1	3.3	3.4	3.3	3.5	3.5	3.7	4.0	4.3	4.5	4.9
λnm	T	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
λnm	T	5.2	5.4	5.8	5.9	6.1	6.1	6.2	6.3	6.3	6.1	6.1	6.1	6.0	5.9	6.0	6.2	6.2	6.4	6.6	6.8
λnm	T	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
λnm	T	7.2	7.7	8.2	8.7	9.4	10.1	10.9	11.8	12.8	13.9	15.0	16.1	17.3	18.5	19.8	21.0	22.2	23.4	24.7	25.8
λnm	T	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
λnm	T	27.0	32.5	37.6	42.4	46.8	51.2	55.2	57.3	59.3	60.5	60.9	60.9	60.7	59.9	58.8	49.0	40.5	38.7	38.5	38.1
λnm	T	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
λnm	T	37.1	35.3	33.0	30.4	27.9	25.5	23.4	21.5	20.0	18.8	18.0	17.7	17.6	17.6	17.9	18.2	18.7	19.4	20.2	20.8
λnm	T	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
λnm	T	21.0	20.4	19.0	17.0	14.8	12.8	10.2	7.6	5.2	3.1	1.6	0.7	0.3	0.1	0.1	0.0	0.0	0.0	0.0	0.0
λnm	T	5000																			
λnm	T	0.0																			



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