

DATA SHEET

HOYA® Y44

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

Y44

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	0.0	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	0.0	0.0	0.0	1.2	30.3	68.8	81.7	85.5	87.1	88.0	88.8	89.4	89.7	90.1	90.4	90.6	90.8	90.9	91.0	91.0
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.0	91.1	91.1	91.0	91.0	91.0	90.9	91.0	90.9	90.8	90.9	90.8
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	90.8	90.7	90.7	90.6	90.6	90.6	90.6	90.5	90.6	90.6	90.5	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	90.8	90.7	90.8	90.8	90.7	90.7	90.8	90.7	90.7	90.8	90.8	90.8	90.8	90.9	90.8	90.9				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.546	1.536	1.531	1.528	1.526	1.525	1.524
K	4.3E-04	4.0E-07	3.5E-07	3.1E-07	2.8E-07	2.5E-07	2.3E-07
P	0.912	0.914	0.916	0.916	0.917	0.917	0.917

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

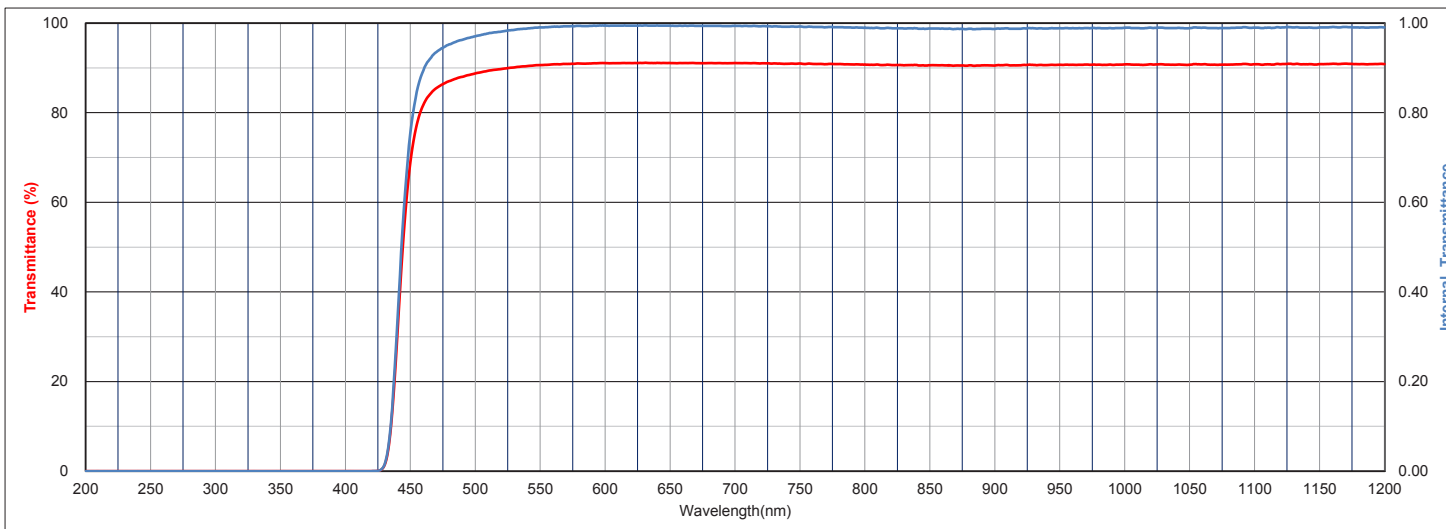
	x	y	Y	λ _s	P _s
A	0.464	0.428	89	580	26
C	0.341	0.377	88	569	25
D65	0.341	0.387	88	568	24

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	2	570	600	99	107	540	130	2.59

Tolerance of Transmittance (t)

λt (nm)	Δλ (nm)	TH (%)
440±5	<25	>85



All data is mean values of various melts.

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

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HOYA® Y44

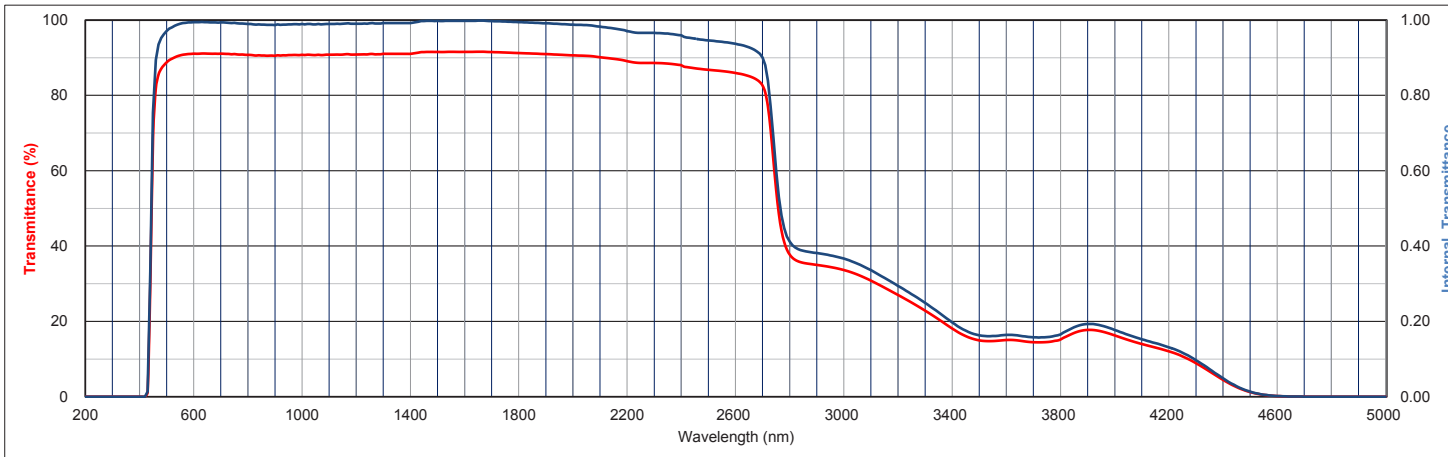
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λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	0.0	0.0	0.0	1.2	30.3	68.8	81.7	85.5	87.1	88.0	88.8	89.4	89.7	90.1	90.4	90.6	90.8	90.9	91.0	91.0
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.0	91.0	91.0	90.9	91.0	90.9	90.8	90.9
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	90.8	90.7	90.7	90.6	90.6	90.6	90.6	90.5	90.6	90.6	90.5	90.6	90.6	90.6	90.6	90.7	90.7	90.7	90.7	90.7
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	90.8	90.7	90.8	90.8	90.7	90.7	90.8	90.7	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.9	90.9	90.8	90.8
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	90.9	90.9	90.9	90.9	90.9	91.0	91.0	90.9	90.9	90.9	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0	91.0
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	91.0	91.1	91.2	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.6	91.6	91.6	91.6	91.5	91.5
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.6	91.5	91.5	91.5	91.5	91.4	91.4	91.4	91.4	91.3	91.3	91.3
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	91.2	91.2	91.2	91.2	91.1	91.1	91.1	91.1	91.0	91.0	91.0	90.9	90.9	90.9	90.8	90.8	90.8	90.7	90.7	90.7
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	90.6	90.5	90.1	89.7	89.1	88.6	88.6	88.4	88.0	87.2	86.8	86.5	86.0	85.1	82.6	55.1	37.8	35.5	35.0	34.4
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	33.6	32.4	30.8	29.0	27.0	25.0	22.9	20.5	18.1	16.1	15.0	14.8	15.0	14.9	14.5	14.5	15.2	16.9	17.7	17.4
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	16.3	15.1	14.0	13.1	12.0	10.7	8.9	6.7	4.5	2.6	1.2	0.5	0.2	0.1	0.0	0.0	0.0	0.0	0.0	0.0
λnm	5000																			
T	0.0																			



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