

DATA SHEET

HOYA® O54

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

O54

Transmittance (T)		units: %																		
λ_{nm}	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
λ_{nm}	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	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.3	38.2	69.4	82.9	87.6	89.2	89.9	89.9
λ_{nm}	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	90.2	90.3	90.3	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.6	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.5	90.6
λ_{nm}	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.7	90.6	90.7	90.8	90.8	90.8	90.8	90.8	90.9	90.9
λ_{nm}	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	90.9	90.8	90.9	90.9	91.0	90.9	91.0	91.0	90.9	91.0	91.0	91.1	91.1	91.1	91.1	91.1				

Refractive Index/Absorption coefficient/Reflection coefficient

λ_{nm}	400	500	600	700	800	900	1000
n	1.552	1.541	1.532	1.528	1.525	1.524	1.522
K	9.3E-03	9.2E-04	3.3E-10	1.0E-21	1.8E-34	7.4E-47	2.6E-58
P	0.911	0.913	0.915	0.916	0.917	0.917	0.918

Classes of Bubbles and Inclusions

Bubble Class	3
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Color Specification

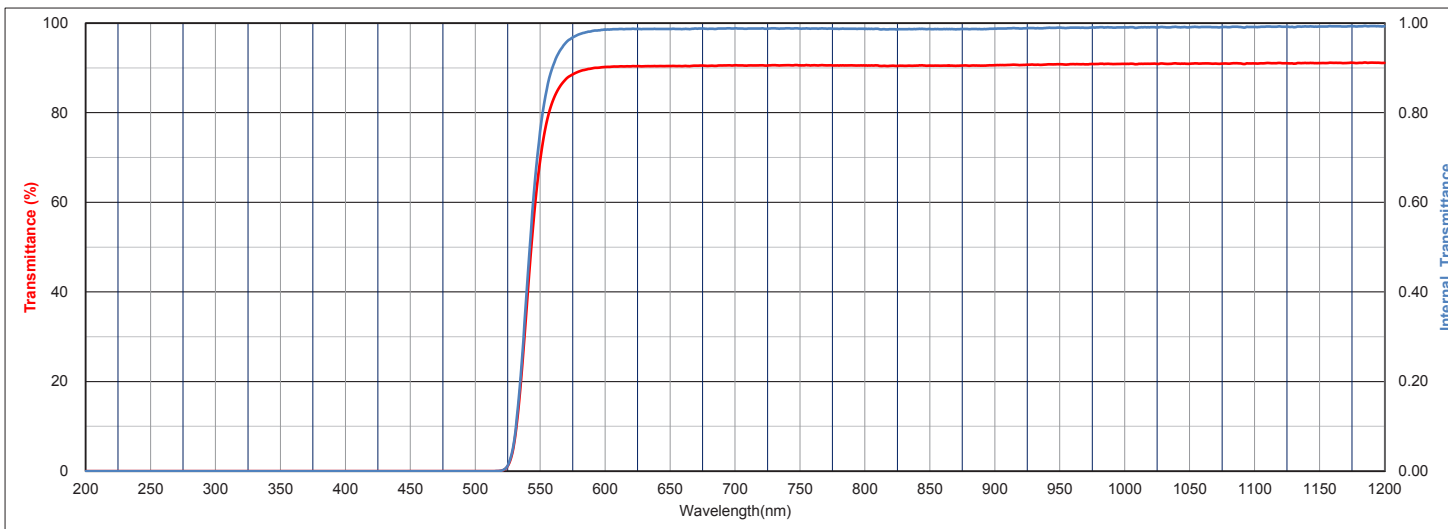
	x	y	Y	λ_s	P_s
A	0.572	0.427	66	590	99
C	0.537	0.461	55	584	100
D65	0.536	0.462	54	584	100

Properties

Chemical		Thermal				Mechanical		Others
D_w	D_k	Tg	Ts	$\alpha_{-30/70}$	$\alpha_{100/300}$	H_k	F_k	d
1	1	560	625	99	107	520	140	2.68

Tolerance of Transmittance (t)

λt (nm)	$\Delta \lambda$ (nm)	TH (%)
540±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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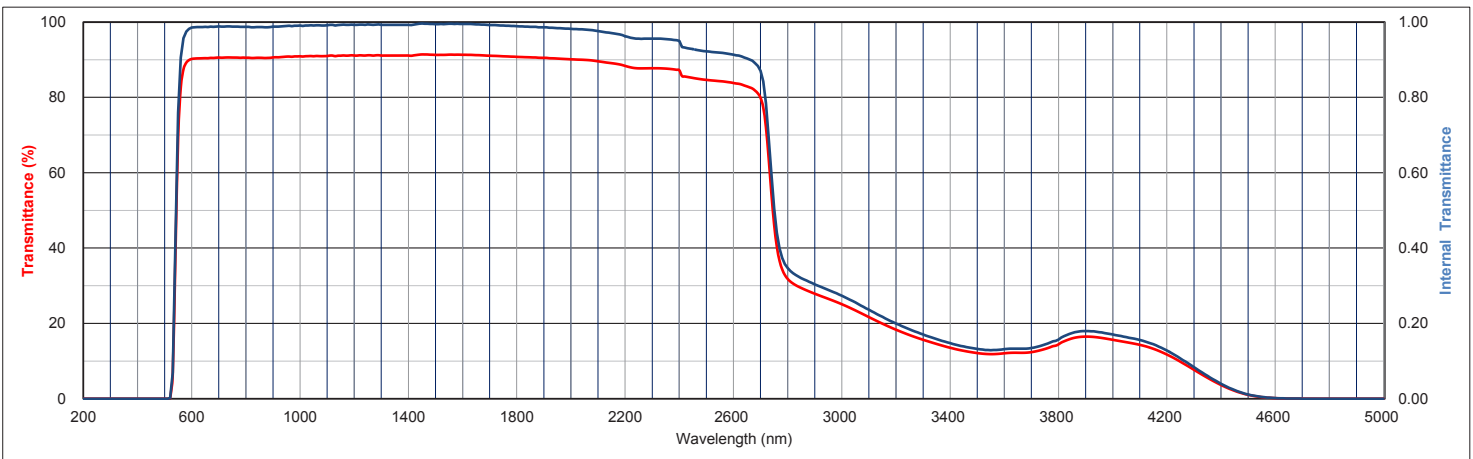
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Transmittance (T)		units: %																		
λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.1	6.3	38.2	69.4	82.9	87.6	89.2	89.9
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	90.2	90.3	90.3	90.4	90.4	90.4	90.4	90.5	90.5	90.5	90.6	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.5	90.6
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.7	90.6	90.7	90.8	90.8	90.8	90.8	90.9	90.9
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	90.9	90.8	90.9	90.9	91.0	90.9	91.0	91.0	90.9	91.0	91.0	91.1	91.1	90.9	91.1	91.1	91.1	91.1	91.1	91.2
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	91.1	91.1	91.2	91.1	91.1	91.2	91.2	91.1	91.2	91.2	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1	91.1
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	91.1	91.0	91.2	91.3	91.3	91.4	91.4	91.4	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.3	91.4	91.3	91.3
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	91.3	91.3	91.3	91.3	91.3	91.2	91.2	91.2	91.1	91.1	91.1	91.0	91.0	91.0	90.9	90.9	90.9	90.9	90.8	90.8
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	90.8	90.7	90.7	90.7	90.7	90.6	90.6	90.6	90.5	90.5	90.5	90.5	90.4	90.4	90.4	90.3	90.3	90.2	90.2	90.2
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	90.1	90.0	89.6	89.1	88.4	87.7	87.6	87.2	87.2	85.2	84.6	84.3	83.8	82.9	79.9	46.4	31.8	29.4	27.9	26.5
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	25.1	23.4	21.7	19.9	18.3	16.9	15.6	14.5	13.5	12.7	12.1	11.8	12.1	12.2	12.4	13.2	14.4	16.0	16.5	16.2
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	15.6	15.0	14.3	13.3	11.7	9.8	7.7	5.6	3.6	2.1	1.0	0.4	0.1	0.1	0.0	0.0	0.0	0.0	0.0	0.0
λnm	5000																			
T	0.0																			



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