

DATA SHEET

HOYA® G533

HOYA

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

G533

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	0.1	0.5	1.7	4.7	9.8	16.8	25.7	35.3	44.1	50.6	53.8	53.3	49.4	43.3	35.9	28.3	21.4
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	15.7	11.4	8.3	6.2	5.0	4.2	3.5	3.3	3.2	2.8	2.8	2.9	3.0	3.2	3.3	3.4	3.5	3.7	3.8	3.9
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	4.0	4.1	4.2	4.4	4.5	4.7	4.9	5.2	5.4	5.7	6.1	6.4	6.9	7.3	7.8	8.2	8.8	9.3	9.9	10.5
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	11.2	11.8	12.5	13.3	14.0	14.8	15.6	16.4	17.2	18.0	18.9	20.7	22.5	24.3	26.1	28.0				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.551	1.541	1.536	1.533	1.531	1.529	1.529
K	8.8E-05	1.5E-05	3.4E-05	7.8E-05	7.9E-05	7.7E-05	6.5E-05
P	0.911	0.913	0.915	0.915	0.916	0.916	0.916

Classes of Bubbles and Inclusions

Bubble Class	3
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Color Specification

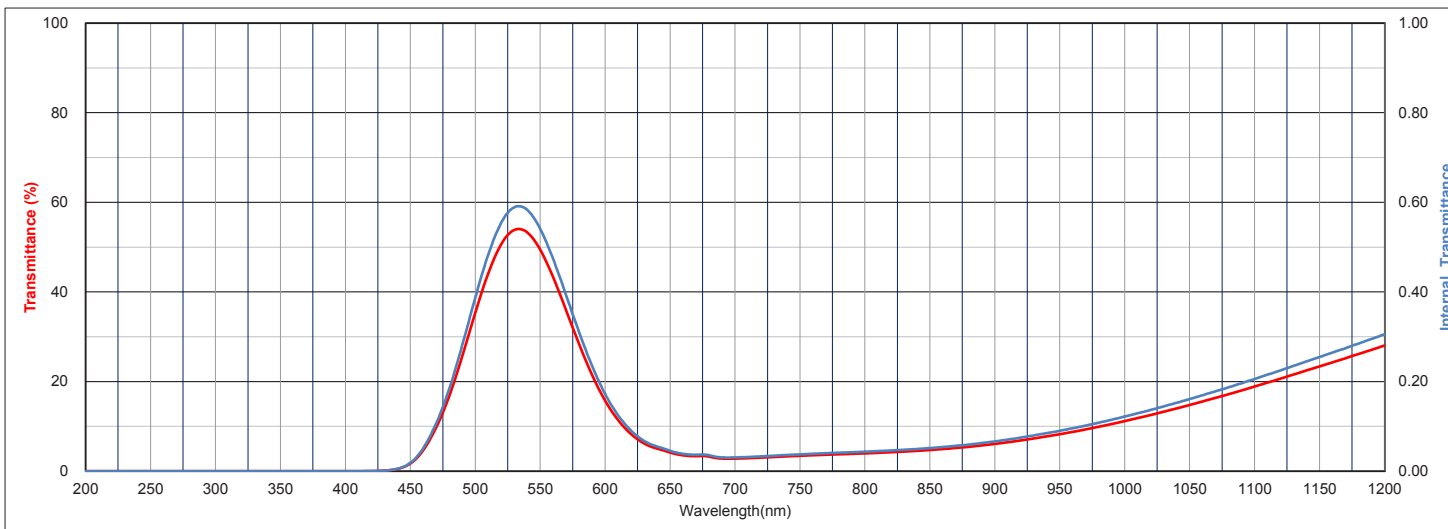
	x	y	Y	λ _d	P _s
A	0.367	0.566	31	551	56
C	0.303	0.564	35	550	65
D65	0.299	0.572	35	549	65

Properties

Chemical		Thermal				Mechanical		Others
D _w	D _k	T _g	T _s	α _{-30/70}	α _{100/300}	H _k	F _k	d
3	1	550	600	87	103	580	140	2.60

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)
53±3	>410	<660



All data is mean values of various melts.

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

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HOYA® G533

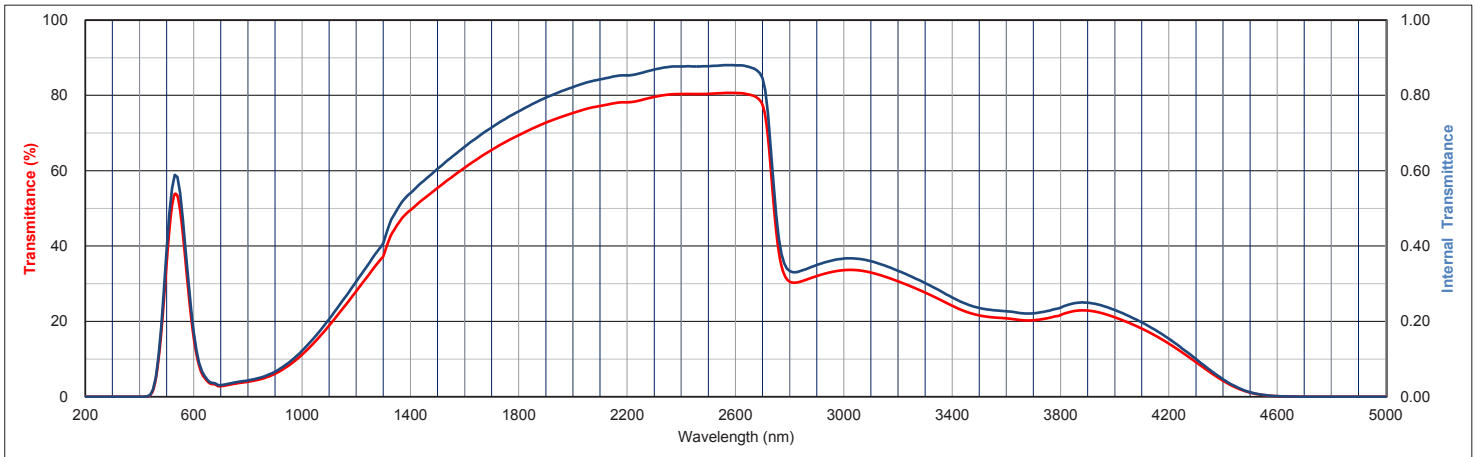
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λnm	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390
T	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	0.0	0.0	0.0	0.1	0.5	1.7	4.7	9.8	16.8	25.7	35.3	44.1	50.6	53.8	53.3	49.4	43.3	35.9	28.3	21.4
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	15.7	11.4	8.3	6.2	5.0	4.2	3.5	3.3	3.2	2.8	2.8	2.9	3.0	3.2	3.3	3.4	3.5	3.7	3.8	3.9
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	4.0	4.1	4.2	4.4	4.5	4.7	4.9	5.2	5.4	5.7	6.1	6.4	6.9	7.3	7.8	8.2	8.8	9.3	9.9	10.5
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	11.2	11.8	12.5	13.3	14.0	14.8	15.6	16.4	17.2	18.0	18.9	19.8	20.7	21.6	22.5	23.4	24.3	25.2	26.1	27.1
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	28.0	29.0	29.9	30.9	31.8	32.7	33.7	34.7	35.5	36.4	37.3	39.5	41.4	43.1	44.3	45.4	46.5	47.5	48.2	49.0
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	49.5	50.1	50.8	51.4	52.0	52.6	53.1	53.7	54.3	54.8	55.4	56.0	56.5	57.1	57.6	58.1	58.7	59.2	59.7	60.3
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	60.8	61.3	61.8	62.3	62.7	63.2	63.7	64.2	64.6	65.1	65.5	65.9	66.4	66.8	67.2	67.6	68.0	68.4	68.7	69.1
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	69.4	69.8	70.1	70.5	70.8	71.2	71.5	71.8	72.2	72.5	72.8	73.1	73.3	73.6	73.9	74.1	74.4	74.6	74.8	75.1
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	75.3	76.4	77.2	77.9	78.2	78.7	79.6	80.2	80.4	80.4	80.6	80.6	80.6	80.2	77.4	44.3	30.6	30.8	32.0	33.0
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	33.6	33.6	33.0	31.9	30.6	29.2	27.7	26.0	24.2	22.6	21.6	21.1	20.8	20.4	20.3	20.8	21.7	22.7	22.9	22.2
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	21.1	19.7	18.1	16.2	14.1	11.7	9.2	6.6	4.2	2.3	1.1	0.4	0.1	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	5000																			
T	0.0																			



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