

# DATA SHEET

# HOYA® G550

**HOYA**

HOYA CANDEO OPTRONICS CORPORATION

Thickness 2.50 mm

**G550**

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	0.3	0.1	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	0.2	0.8	2.1	5.2	11.0	20.0	30.2	40.4	50.6	59.8	67.6	73.6	77.8	80.2	80.7	79.5	77.0	73.2	68.7
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	63.7	59.0	54.7	51.5	50.5	49.7	49.6	52.0	54.7	54.1	57.2	61.2	65.2	69.2	72.8	76.1	78.8	81.0	82.8	84.3
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	85.4	86.2	86.6	87.1	87.4	87.8	88.0	88.2	88.3	88.5	88.6	88.7	88.9	89.0	89.0	89.1	89.2	89.3	89.3	89.5
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1120	1140	1160	1180	1200				
T	89.5	89.6	89.6	89.7	89.7	89.8	89.9	89.9	89.9	90.0	90.1	90.2	90.2	90.3	90.4	90.4				

Refractive Index/Absorption coefficient/Reflection coefficient

λnm	400	500	600	700	800	900	1000
n	1.538	1.530	1.525	1.523	1.521	1.520	1.519
K	6.0E-05	6.7E-06	7.6E-06	1.1E-05	2.0E-06	1.1E-06	9.7E-07
P	0.914	0.916	0.917	0.918	0.918	0.918	0.919

Classes of Bubbles and Inclusions

Bubble Class
3

Color Specification

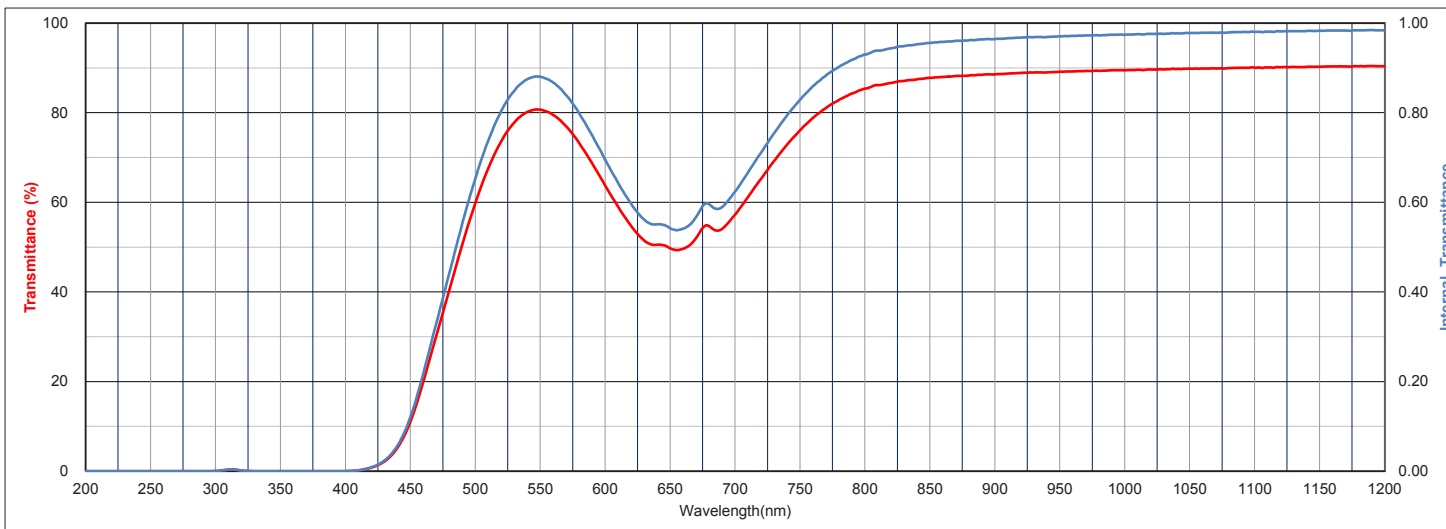
	x	y	Y	λ <sub>d</sub>	P <sub>s</sub>
A	0.463	0.477	69	574	59
C	0.372	0.475	70	566	59
D65	0.370	0.483	70	565	59

Properties

Chemical		Thermal				Mechanical		Others
D <sub>w</sub>	D <sub>k</sub>	T <sub>g</sub>	T <sub>s</sub>	α <sub>-30/70</sub>	α <sub>100/300</sub>	H <sub>k</sub>	F <sub>k</sub>	d
4	1	545	590	90	104	560	130	2.58

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)
82±3	>400	-



All data is mean values of various melts.

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

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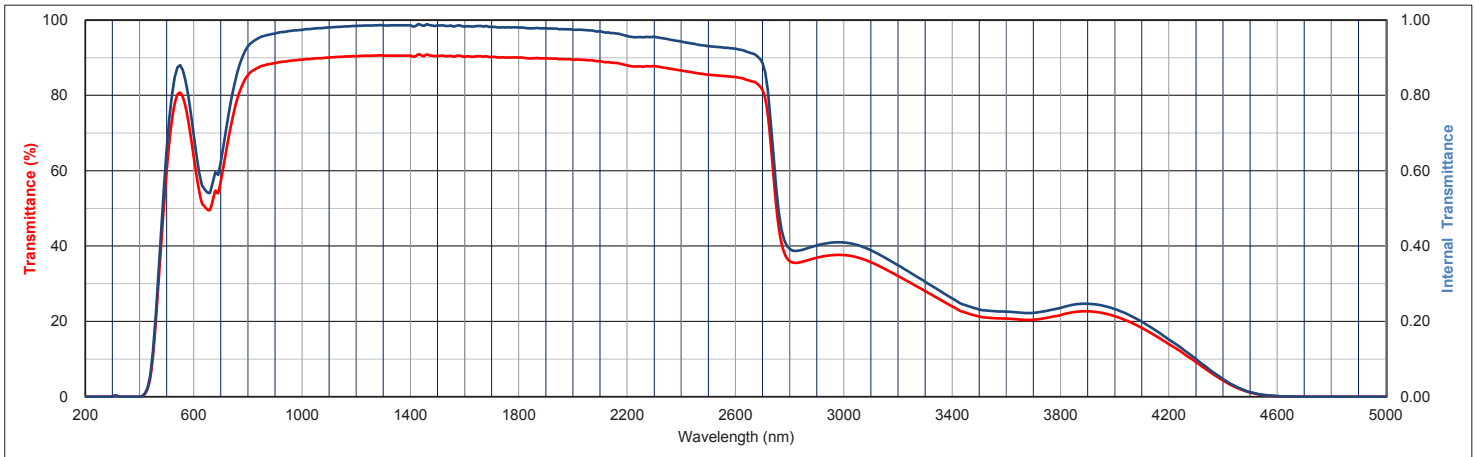
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λnm	400	410	420	430	440	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590
T	0.0	0.2	0.8	2.1	5.2	11.0	20.0	30.2	40.4	50.6	59.8	67.6	73.6	77.8	80.2	80.7	79.5	77.0	73.2	68.7
λnm	600	610	620	630	640	650	660	670	680	690	700	710	720	730	740	750	760	770	780	790
T	63.7	59.0	54.7	51.5	50.5	49.7	49.6	52.0	54.7	54.1	57.2	61.2	65.2	69.2	72.8	76.1	78.8	81.0	82.8	84.3
λnm	800	810	820	830	840	850	860	870	880	890	900	910	920	930	940	950	960	970	980	990
T	85.4	86.2	86.6	87.1	87.4	87.8	88.0	88.2	88.3	88.5	88.6	88.7	88.9	89.0	89.1	89.2	89.3	89.3	89.3	89.5
λnm	1000	1010	1020	1030	1040	1050	1060	1070	1080	1090	1100	1110	1120	1130	1140	1150	1160	1170	1180	1190
T	89.5	89.6	89.6	89.7	89.7	89.8	89.9	89.9	89.9	90.0	90.1	90.1	90.2	90.2	90.2	90.3	90.3	90.3	90.4	90.4
λnm	1200	1210	1220	1230	1240	1250	1260	1270	1280	1290	1300	1310	1320	1330	1340	1350	1360	1370	1380	1390
T	90.4	90.5	90.5	90.5	90.5	90.5	90.5	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6	90.6
λnm	1400	1410	1420	1430	1440	1450	1460	1470	1480	1490	1500	1510	1520	1530	1540	1550	1560	1570	1580	1590
T	90.6	90.3	90.4	90.9	90.7	90.4	90.9	90.6	90.5	90.4	90.5	90.5	90.6	90.4	90.4	90.5	90.3	90.5	90.6	90.4
λnm	1600	1610	1620	1630	1640	1650	1660	1670	1680	1690	1700	1710	1720	1730	1740	1750	1760	1770	1780	1790
T	90.3	90.4	90.3	90.2	90.3	90.4	90.4	90.3	90.4	90.2	90.2	90.2	90.1	90.1	90.1	90.0	90.1	90.1	90.1	90.1
λnm	1800	1810	1820	1830	1840	1850	1860	1870	1880	1890	1900	1910	1920	1930	1940	1950	1960	1970	1980	1990
T	90.0	90.1	90.0	89.9	89.8	89.8	89.9	89.9	89.8	89.8	89.9	89.8	89.8	89.8	89.8	89.6	89.7	89.6	89.6	89.6
λnm	2000	2050	2100	2150	2200	2250	2300	2350	2400	2450	2500	2550	2600	2650	2700	2750	2800	2850	2900	2950
T	89.5	89.4	89.1	88.7	88.0	87.7	87.8	87.2	86.6	86.0	85.5	85.2	84.9	84.0	81.4	51.0	36.0	35.9	36.9	37.5
λnm	3000	3050	3100	3150	3200	3250	3300	3350	3400	3450	3500	3550	3600	3650	3700	3750	3800	3850	3900	3950
T	37.6	37.0	35.7	34.0	32.1	30.1	28.0	26.0	24.0	22.3	21.3	20.9	20.7	20.5	20.4	21.0	21.7	22.5	22.7	22.3
λnm	4000	4050	4100	4150	4200	4250	4300	4350	4400	4450	4500	4550	4600	4650	4700	4750	4800	4850	4900	4950
T	21.4	20.0	18.3	16.2	14.0	11.7	9.2	6.6	4.3	2.4	1.1	0.4	0.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
λnm	5000																			
T	0.0																			



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