

Color Compensating Filters Near-Infrared Absorbing Filters

Thickness: 1.0 mm

Refractive Index (n) | Absorption coefficient (K) | Reflection coefficient

Bubble Class

λ nm	400	500	600	700	800	900	1000	0
n	1.554	1.544	1.539	1.536	1.534	1.533	1.532	
K	3.0E-06	1.1E-06	3.2E-05	2.8E-04	7.8E-04	1.2E-03	1.3E-03	
P	0.910	0.913	0.914	0.915	0.915	0.915	0.915	

Properties

Chemical		Thermal				Mechanical		Others
D_W	D_A	T_g	T_s	α -30/70	α 100/300	H_K	F_A	d
3	1	560	625	94	105	540	130	2.67

Color Specification

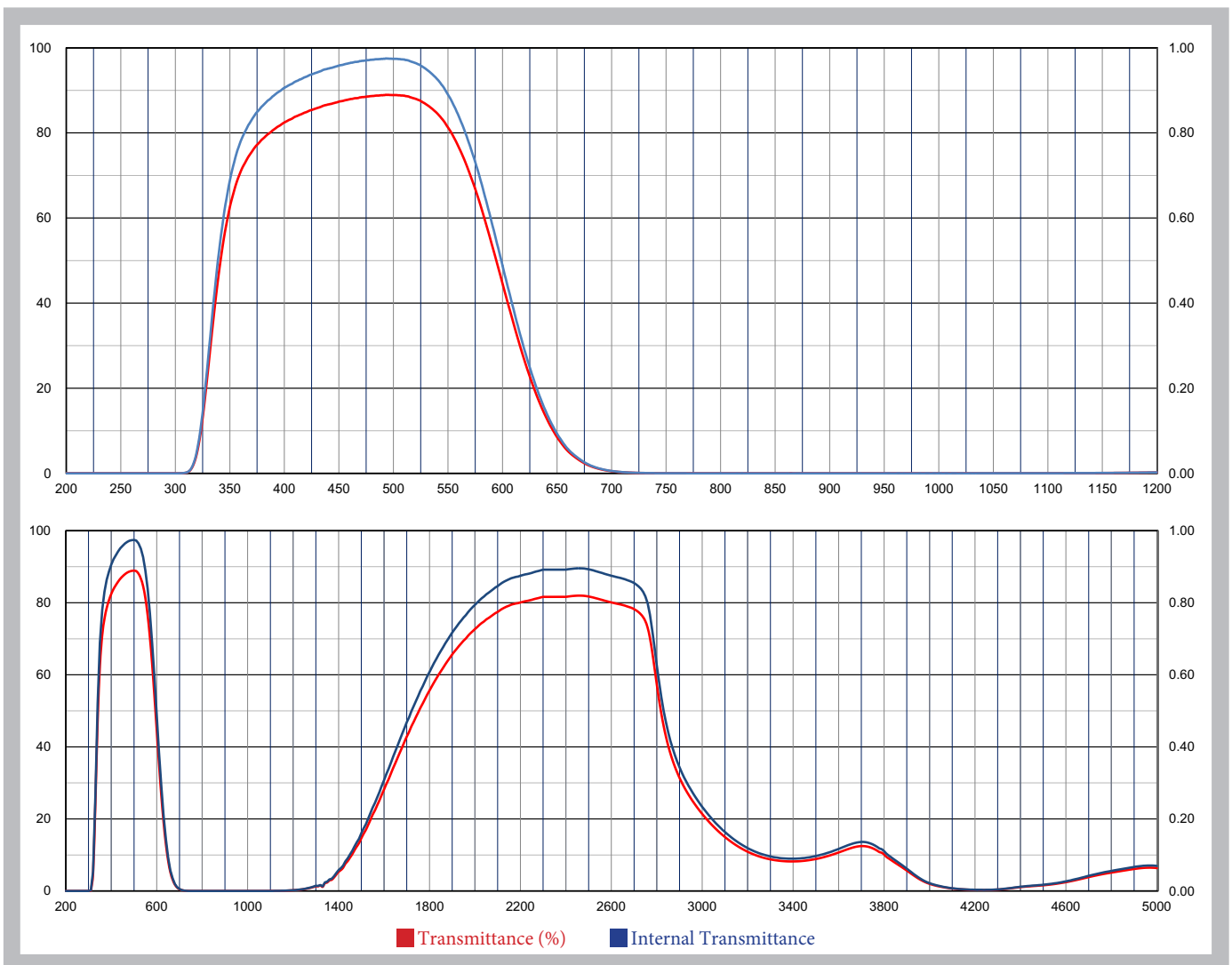
	x	y	Y	λ_d	P_e
A	0.347	0.435	62	500	23
C	0.243	0.305	69	489	26
D65	0.245	0.320	70	490	25

Tolerance of Transmittance (T)

T400 (%) ¹	≥80
T500 (%) ²	≥88
T600 (%) ³	≤50

1) Transmittance at 400nm
2) Transmittance at 500nm
3) Transmittance at 600nm

CM500



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Transmittance (T)		Initial Value: 200λnm - 0.00T									
λnm	T	λnm	T	λnm	T	λnm	T	λnm	T	λnm	T
210	0.0	610	35.3	1010	0.0	1410	5.8	1810	56.8	3050	17.9
220	0.0	620	26.6	1020	0.0	1420	6.5	1820	57.9	3100	15.0
230	0.0	630	19.2	1030	0.0	1430	7.6	1830	59.0	3150	12.7
240	0.0	640	13.2	1040	0.0	1440	8.3	1840	60.0	3200	10.9
250	0.0	650	8.5	1050	0.0	1450	9.2	1850	61.0	3250	9.6
260	0.0	660	5.2	1060	0.0	1460	10.2	1860	61.9	3300	8.8
270	0.0	670	3.2	1070	0.0	1470	11.3	1870	62.9	3350	8.3
280	0.0	680	1.8	1080	0.0	1480	12.3	1880	63.9	3400	8.2
290	0.0	690	1.0	1090	0.0	1490	13.3	1890	64.8	3450	8.4
300	0.0	700	0.5	1100	0.0	1500	14.6	1900	65.7	3500	8.9
310	0.1	710	0.3	1110	0.0	1510	15.9	1910	66.5	3550	9.7
320	4.9	720	0.1	1120	0.0	1520	17.0	1920	67.2	3600	10.7
330	24.3	730	0.1	1130	0.0	1530	18.3	1930	68.0	3650	11.8
340	47.2	740	0.0	1140	0.1	1540	19.7	1940	68.7	3700	12.5
350	62.6	750	0.0	1150	0.1	1550	21.2	1950	69.5	3750	11.9
360	70.9	760	0.0	1160	0.1	1560	22.4	1960	70.1	3800	10.1
370	75.5	770	0.0	1170	0.1	1570	23.8	1970	70.8	3850	7.8
380	78.6	780	0.0	1180	0.1	1580	25.2	1980	71.5	3900	5.7
390	80.7	790	0.0	1190	0.2	1590	26.7	1990	72.1	3950	3.5
400	82.5	800	0.0	1200	0.2	1600	28.2	2000	72.7	4000	2.0
410	83.8	810	0.0	1210	0.3	1610	29.7	2050	75.4	4050	1.2
420	84.9	820	0.0	1220	0.3	1620	31.0	2100	77.4	4100	0.7
430	85.8	830	0.0	1230	0.4	1630	32.6	2150	79.2	4150	0.4
440	86.7	840	0.0	1240	0.5	1640	34.1	2200	80.1	4200	0.3
450	87.3	850	0.0	1250	0.6	1650	35.5	2250	80.8	4250	0.3
460	87.9	860	0.0	1260	0.7	1660	37.0	2300	81.6	4300	0.4
470	88.4	870	0.0	1270	0.8	1670	38.5	2350	81.6	4350	0.7
480	88.7	880	0.0	1280	0.9	1680	39.9	2400	81.6	4400	1.1
490	88.8	890	0.0	1290	1.1	1690	41.4	2450	82.0	4450	1.4
500	88.9	900	0.0	1300	1.3	1700	42.9	2500	81.7	4500	1.6
510	88.8	910	0.0	1310	1.3	1710	44.1	2550	80.9	4550	1.9
520	88.0	920	0.0	1320	1.5	1720	45.6	2600	80.1	4600	2.5
530	86.7	930	0.0	1330	1.2	1730	46.9	2650	79.4	4650	3.1
540	84.6	940	0.0	1340	2.2	1740	48.2	2700	78.2	4700	3.9
550	81.3	950	0.0	1350	2.4	1750	49.5	2750	74.8	4750	4.5
560	76.6	960	0.0	1360	3.0	1760	50.8	2800	57.4	4800	5.1
570	70.4	970	0.0	1370	3.1	1770	52.0	2850	40.4	4850	5.6
580	62.9	980	0.0	1380	3.8	1780	53.2	2900	31.4	4900	6.1
590	54.0	990	0.0	1390	4.6	1790	54.5	2950	25.7	4950	6.5
600	44.6	1000	0.0	1400	5.3	1800	55.6	3000	21.4	5000	6.4