

**Color Compensating Filter (Cyan)**

**CM-500**

Diagram-5

Reflection Factor  $P_c = 0.914$

Catalog Thickness  $t = 1.0$  mm

Transmittance (T) & Internal Transmittance ( $\tau$ )		units : (%)																								
$\lambda_{nm}$		200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440
T													.14	5.0	23.3	44.5	58.2	66.2	71.0	74.1	76.8	79.0	80.7	82.3	83.6	84.7
$\tau$													.15	5.5	25.5	48.7	63.7	72.4	77.7	81.1	84.0	86.4	88.3	90.0	91.5	92.7
$\lambda_{nm}$	450	460	470	480	490	500	510	520	530	540	550	560	570	580	590	600	610	620	630	640	650	660	670	680	690	
T	85.7	86.5	87.2	87.7	88.0	88.3	88.0	87.7	86.8	85.2	82.6	79.0	74.1	68.0	60.8	52.7	44.3	36.3	28.6	21.7	15.8	11.3	7.8	5.2	3.3	
$\tau$	93.8	94.6	95.4	96.0	96.3	96.6	96.3	96.0	95.0	93.2	90.4	86.4	81.1	74.4	66.5	57.7	48.5	39.7	31.3	23.7	17.3	12.4	8.5	5.7	3.6	
$\lambda_{nm}$	700	710	720	730	740	750	800	850	900	950	1,000	1,100	1,200	1,300	1,400	1,500	1,600	1,700	1,800	1,900	2,000	2,100	2,200	2,300	2,400	
T	2.0	1.2	.76	.49	.31	.20	.04	.02	.02	.03	.07	.3	1.3	4.7	12.1	24.0	38.0	51.4	62.2	70.1	75.5	79.0	79.8	80.2	81.2	
$\tau$	2.2	1.3	.84	.53	.34	.22	.04	.02	.03	.08	.3	1.4	5.1	13.2	26.3	41.6	56.2	68.1	76.7	82.6	86.4	87.3	87.7	88.8		

**Refractive Indices**

Symbol	i	h	g	F	F'	e	d	D	C'	C	r	A'	t
$\lambda_{nm}$	365.0	404.7	435.8	480.0	486.1	546.1	587.6	589.3	643.8	656.3	706.5	768.2	1,014.0
n			1.548	1.544	1.544	1.539	1.538	1.538					

**Abbe-Number**

$$V_d = \frac{n_d - 1}{n_F - n_C}$$

**Color Specifications**

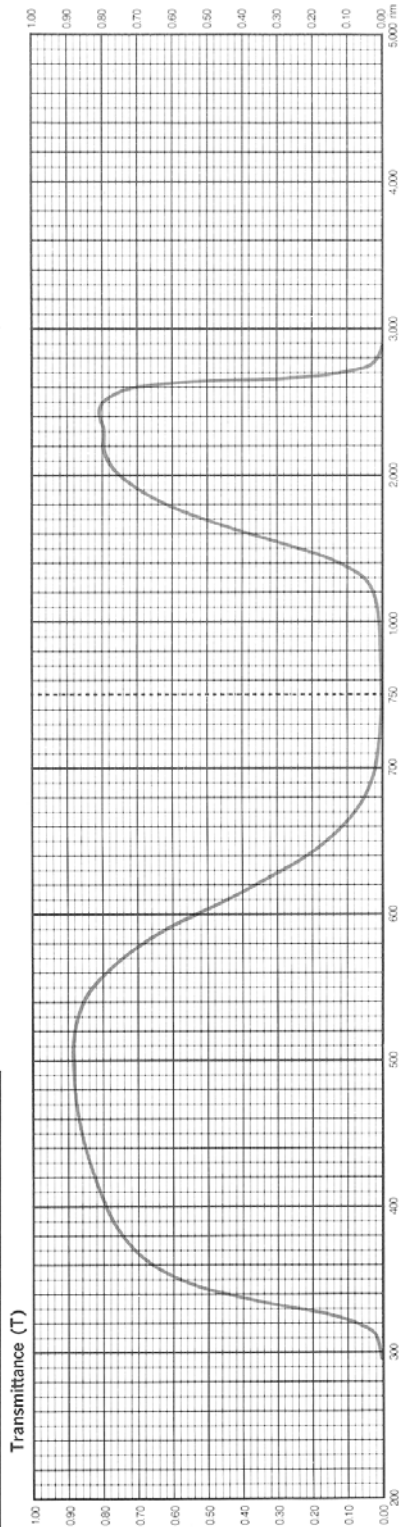
	x	y	Y	$\lambda_{50}$	$P_v$
A	.368	.432	66.0	500	18
C	.256	.310	72.4	490	21
D <sub>50</sub>	.258	.325	72.8	491	20

**Properties**

Chemical		Thermal		Mechanical		Other		
D <sub>17</sub>	D <sub>1</sub>	T <sub>g</sub>	T <sub>h</sub>	H <sub>k</sub>	F <sub>1</sub>	S	S	
2	2	430	470	90	110	460	200	2.60

**Tolerances of Transmittance (T)**

Wavelength for Max. Transmittance	Maximum Transmittance	Transmittance at 600 nm	Transmittance at 700 nm
$\lambda T_{max}$ (nm)	T <sub>max</sub> (%)	T <sub>600</sub> (%)	T <sub>700</sub> (%)
500 ± 5	90 ± 2	47 ± 3	< 2



All data are mean values of various melts.

HOYA 8405E

WHILE EVERY ATTEMPT HAS BEEN MADE TO VERIFY THE SOURCE OF THE INFORMATION, NO RESPONSIBILITY IS ACCEPTED FOR ACCURACY OF DATA.

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