

Color Compensating Filter (Cyan)

C-5000

Catalog Thicknes t= 1.0 mm

Reflection Factor $P_d=0.920$

Diagram-5

Transmittance (T) & Internal Transmittance (τ)		units:(%)																							
	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											0	1.7	11.7	33.4	56.2	71.6	80.5	84.9	86.6	87.8	88.5	88.9	89.3	89.5	89.9
τ											0	6.2	20.1	44.4	65.8	80.5	89.0	93.6	95.8	96.6	97.3	98.0	98.3	98.5	98.7
λ_{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	90.1	90.2	90.5	90.6	90.7	90.7	90.3	89.8	89.1	88.0	86.1	83.3	79.7	75.3	70.0	64.0	57.3	50.3	43.3	36.8	30.6	24.9	20.2	16.2	12.9
τ	99.0	99.1	99.2	99.3	99.2	99.2	99.0	98.5	97.6	96.0	94.0	91.2	87.5	82.5	76.9	70.4	63.2	55.7	48.0	40.8	34.1	28.0	22.8	18.3	14.5
λ_{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	10.2	8.1	6.5	5.3	3.8	3.1	1.9	1.5	2.1	3.2	4.9	10.9	20.6	33.6	47.6	60.1	70.3	77.5	81.5	85.0	87.2	88.7	89.7	90.4	91.0
τ	11.4	9.0	7.2	5.4	4.1	3.4	2.1	1.6	2.3	3.5	5.3	13.3	23.2	36.8	51.5	64.8	75.3	83.2	88.4	92.2	94.7	96.0	96.9	98.0	98.7

Refractive Indices													
Symbol	i	h	g	F'	F	e	d	D	C'	C	r	A'	t
λ_{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	1.531	1.525	1.522	1.519	1.519	1.515	1.514	1.514	1.512	1.512	1.511	1.510	1.508

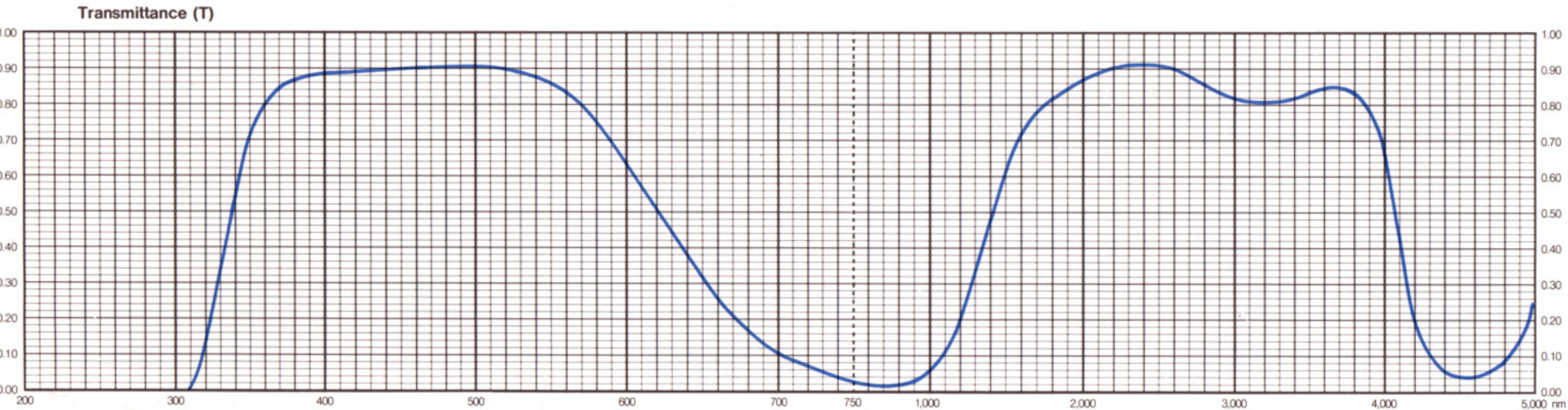
Abbe-Number

$$V_d = \frac{nd - 1}{nF' - nC} = 75$$

Color Specifications					
	x	y	Y	λ_d	P_e
A	.389	.424	72.6	499	13
C	.268	.309	77.2	489	16
D ₆₅	.271	.323	77.5	514	16

Chemical		Thermal				Mechanical		Other
D _W	D _A	T _g	T _s	$\alpha_{-30/70}$	$\alpha_{100/300}$	H _K	F _A	S
1	4	365	403	—	157	374	453	3.37

Tolerances of Transmittance (T)			
Wavelength for Max Transmittance	Maximum Transmittance	Transmittance at 600nm	Transmittance at 700nm
λ_{Tmax} (nm)	T _{max} (%)	T ₆₀₀ (%)	T ₇₀₀ (%)
500±10	90±2	64±3	<12



All data are mean values of various melts.

HOYA 9101E