

Color Compensating Filter (Cyan)

CAW-500

Catalog Thickness t = 1.0 mm

Reflection Factor $P_o = 0.911$

Diagram-5

Transmittance (T) & Internal Transmittance (τ) units: (%)

λ_{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										.04	1.2	12.0	36.0	59.8	73.0	80.0	83.0	84.7	86.0	87.0	87.3	88.0	88.2	88.7	89.0
τ										.04	1.3	13.2	39.5	65.6	80.1	87.8	91.1	93.0	94.4	95.5	95.8	96.6	96.8	97.4	97.7
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	89.2	89.5	89.6	89.8	89.8	89.8	89.8	89.4	89.1	88.5	87.6	86.2	84.2	82.0	79.8	76.2	72.0	65.8	60.1	53.5	47.5	41.9	36.2	31.0	26.0
τ	97.9	98.2	98.4	98.6	98.6	98.6	98.6	98.1	97.8	97.1	96.2	94.6	92.4	90.0	87.6	83.6	79.0	72.2	66.0	58.7	52.1	46.0	39.7	34.0	28.5
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	22.0	18.0	15.0	12.2	10.0	8.1	3.6	2.5	2.5	3.0	4.0	7.7	14.4	24.6	37.2	50.2	61.6	70.2	76.3	80.4	82.9	84.2	84.0	84.0	83.0
τ	24.1	19.8	16.5	13.4	11.0	8.9	4.0	2.7	2.7	3.3	4.4	8.5	15.8	27.0	40.8	55.1	67.6	77.1	83.8	88.3	91.0	92.4	92.2	92.2	91.1

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	1.571	1.565	1.561	1.557	1.557	1.553	1.551	1.551	1.549	1.548			

Abbe-Number

$$V_d = \frac{n_d - 1}{n_F - n_C} = 66$$

Color Specifications

	x	y	Y	λ_d	P_e
A	.415	.418	79.7	500	7
C	.287	.314	82.8	490	9
D ₆₅	.290	.327	83.0	490	8

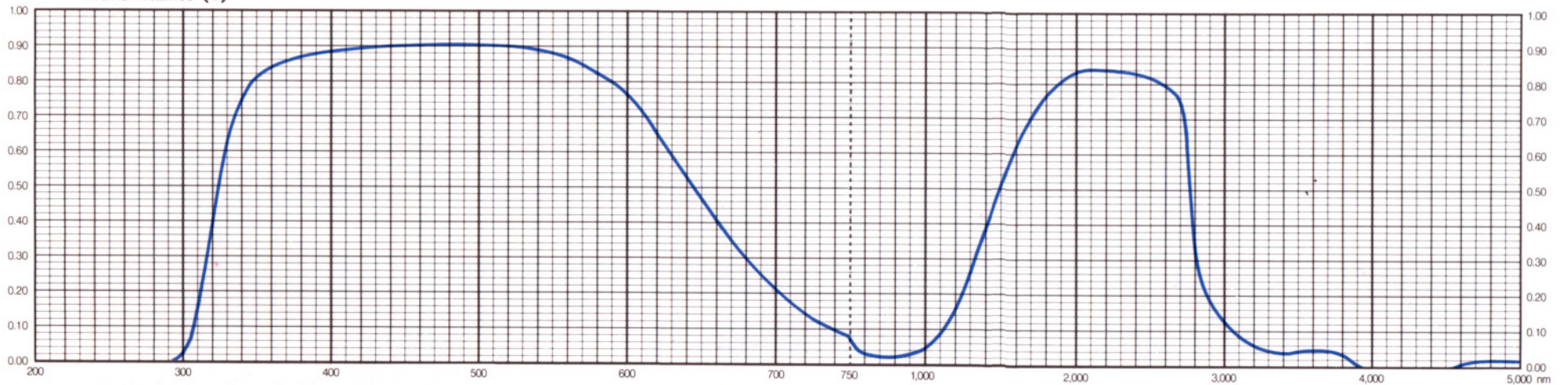
Properties

Chemical		Thermal				Mechanical		Other
D _w	D _A	T _g	T _s	$\alpha_{-30/70}$	$\alpha_{100/300}$	H _K	F _A	S
2	1	465	500	88	104	350	190	2.92

Tolerances of Transmittance (T)

Wavelength for Max. Transmittance	Maximum Transmittance	Transmittance at 600 nm	Transmittance at 700 nm
λT_{max} (nm)	T _{max} (%)	T ₆₀₀ (%)	T ₇₀₀ (%)
500 ± 5	90 ± 2	78 ± 3	25 ± 3

Transmittance (T)



All data are mean values of various melts.