

Light Balancing Filter (Blue)

LB-80

Catalog Thickness $t = 2.5$ mm

Reflection Factor $P_r = 0.911$

Diagram-4

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												$2 \cdot 10^{-3}$	.41	6.6	23.7	42.9	57.8	67.9	73.5	79.0	82.5	82.9	77.7	75.8	72.6
τ												$2 \cdot 10^{-3}$	.45	7.2	26.0	47.1	63.4	74.5	80.7	86.7	90.6	91.0	85.3	83.2	79.7
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	69.8	66.9	64.3	62.0	59.5	57.6	55.5	53.1	50.5	48.8	48.4	48.6	47.6	43.9	39.6	37.6	36.5	34.9	32.5	30.4	29.1	28.7	29.0	29.8	30.4
τ	76.6	73.4	70.6	68.1	65.3	63.2	60.9	58.3	55.4	53.6	53.1	53.3	52.3	48.2	43.5	41.3	40.1	38.3	35.7	33.4	31.9	31.5	31.8	32.7	33.4
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	30.2	29.9	29.3	28.7	28.2	27.9	28.0	29.6	32.7	36.9	41.5	49.4	57.3	62.8	68.4	72.0	75.5	77.7	79.9	82.0	84.0	84.5	84.9	85.0	85.1
τ	33.2	32.8	32.2	31.5	31.0	30.6	30.7	32.5	35.9	40.5	45.6	54.2	62.9	68.9	75.1	79.0	82.9	85.3	87.7	90.0	92.2	92.8	93.2	93.3	93.4

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	1.577	1.568	1.562	1.557	1.556	1.551	1.548	1.548	1.545	1.545	1.543	1.541	1.535

Abbe-Number

$$\nu_d = \frac{n_d - 1}{n_F - n_C} = 49$$

Color Specifications

	x	y	Y	λ_d	P_e
A	.392	.395	44.2	491	14
C	.261	.271	47.0	479	23
D_{65}	.263	.285	47.1	480	22

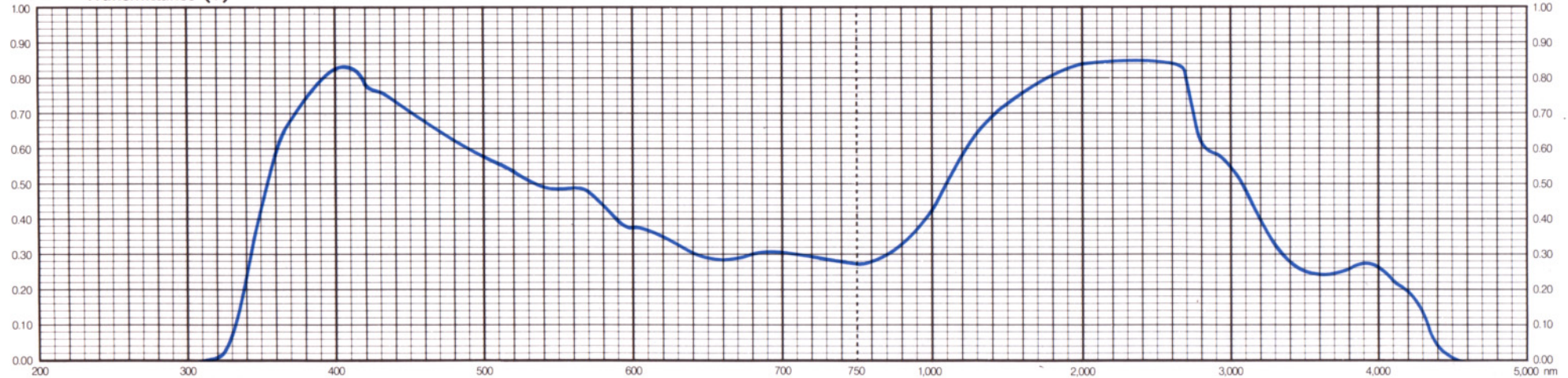
Properties

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	460	510	99	116	490	110	2.83

Tolerances of Transmittance (T)

B-R Conversion Value	Filter Factor
V (mired)	P
-80 ± 5	1

Transmittance (T)



All data are mean values of various melts.

HOYA 8304E