

Light Balancing Filter (Amber)

LA-80

Catalog Thickness t = 2.5 mm

Reflection Factor P_d = 0.916

Diagram-3

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										2·10 ⁻²	.16	1.2	3.2	5.2	6.3	6.4	6.4	6.8	8.4	11.5	16.9	23.7	30.9	37.9	43.4	
τ										2·10 ⁻²	.17	1.3	3.5	5.7	6.9	7.0	7.0	7.4	9.2	12.6	18.5	25.9	33.7	41.4	47.4	
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	46.9	48.7	49.7	50.1	50.7	51.9	53.9	56.6	59.9	63.6	67.3	70.9	74.4	77.0	79.5	81.8	83.2	84.4	85.0	85.2	85.2	85.1	84.4	83.6	82.0	
τ	51.2	53.2	54.3	54.7	55.3	56.7	58.8	61.8	65.4	69.4	73.5	77.4	81.2	84.1	86.8	89.3	90.8	92.1	92.8	93.0	93.0	92.9	92.1	91.3	89.5	
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	80.6	79.4	78.4	77.3	76.4	75.8	76.9	82.5	87.5	89.9	90.9	91.3	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	90.7	89.9	89.3	88.7
τ	88.0	86.7	85.6	84.4	83.4	82.8	84.0	90.1	95.5	98.1	99.2	99.7	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.0	98.1	97.5	96.8

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	1.552	1.545	1.540	1.536	1.535	1.531	1.529	1.529	1.527	1.526	1.525	1.523	1.519

Abbe-Number

$$\nu_d = \frac{n_d - 1}{n_F - n_C} = 58$$

Color Specifications

	x	y	Y	λ _d	P _e
A	.490	.414	72.5	590	34
C	.364	.357	68.7	581	25
D ₆₅	.366	.368	68.6	581	26

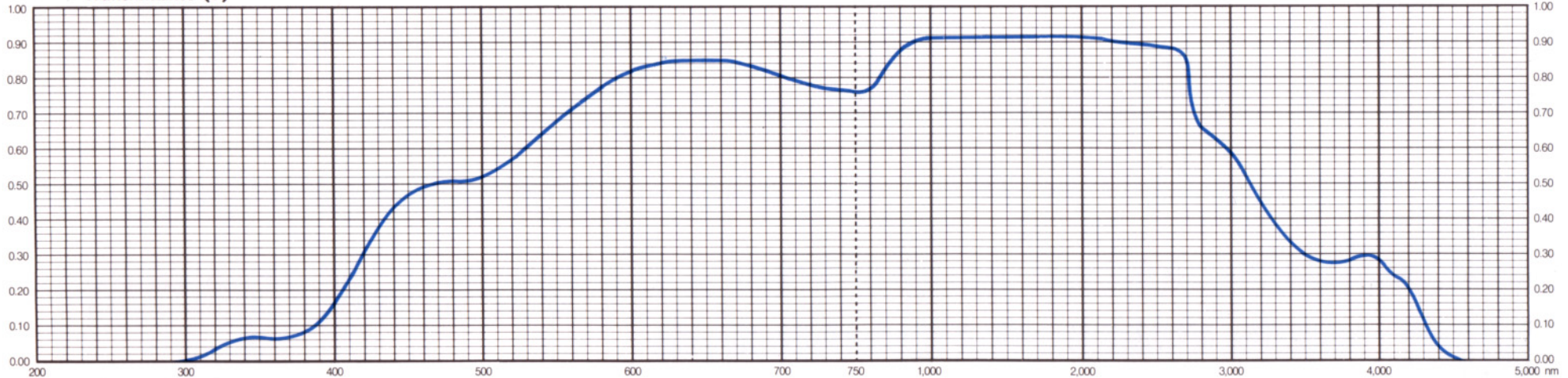
Properties

Chemical		Thermal				Mechanical		Other
D _w	D _A	T _g	T _s	α _{-30/70}	α _{100/300}	H _K	F _A	S
3	1	510	560	100	113	530	130	2.67

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