

Light Balancing Filter (Blue)

LB-40

Catalog Thickness $t = 2.5$ mm

Reflection Factor $P_d = 0.912$

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											$8 \cdot 10^{-3}$	1.1	11.5	32.2	53.2	66.8	74.7	81.1	84.4	86.8	88.0	88.1	85.1	83.9	82.1
τ											$9 \cdot 10^{-3}$	1.2	12.6	35.3	58.3	73.2	81.9	88.9	92.5	95.2	96.5	96.6	93.3	92.0	90.0
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	80.6	78.8	77.3	75.8	74.3	73.0	71.8	70.3	68.6	67.6	67.3	67.2	66.4	63.9	61.0	59.4	58.4	56.9	55.2	53.5	52.3	51.6	51.7	52.0	52.1
τ	88.4	86.4	84.8	83.1	81.5	80.0	78.7	77.1	75.2	74.1	73.8	73.7	72.8	70.1	66.9	65.1	64.0	62.4	60.5	58.7	57.3	56.6	56.7	57.0	57.1
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	52.1	51.6	51.2	50.8	50.4	50.1	50.2	51.6	54.3	57.6	61.2	66.8	72.3	75.8	79.2	81.4	83.5	84.6	85.6	86.4	87.3	87.2	87.2	87.1	87.0
τ	57.1	56.6	56.1	55.7	55.3	54.9	55.0	56.6	59.5	63.2	67.1	73.2	79.3	83.1	86.8	89.3	91.6	92.8	93.9	94.7	95.7	95.6	95.6	95.5	95.4

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	1.576	1.567	1.561	1.556	1.555	1.550	1.547	1.547	1.544	1.544	1.542	1.540	1.535

Abbe-Number

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

Color Specifications

	x	y	Y	λ_d	P_e
A	.422	.406	63.9	494	6
C	.287	.302	65.9	483	10
D_{65}	.290	.315	66.0	484	10

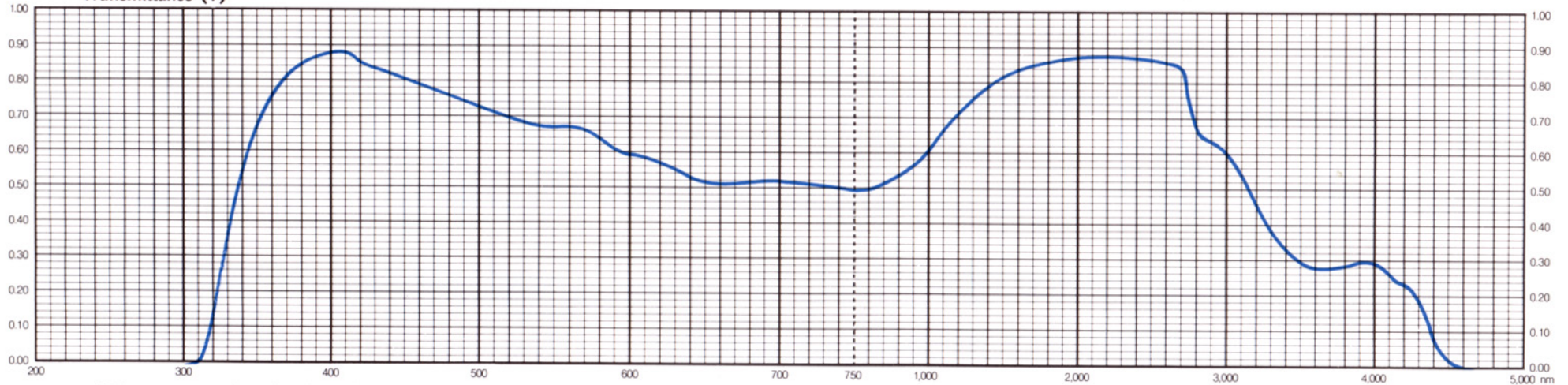
Properties

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	515	92	115	490	110	2.81

Tolerances of Transmittance (T)

B-R Conversion Value	Filter Factor
V (mired)	P
-40 ± 5	0.5

Transmittance (T)



All data are mean values of various melts.