

Light Balancing Filter (Blue)

LB-100

Catalog Thickness t = 2.5 mm

Reflection Factor P_d = 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												1•10 ⁻³	.19	3.7	18.1	36.9	53.1	64.8	69.9	76.0	79.3	79.2	72.5	68.9	64.1
τ												1•10 ⁻³	.21	4.1	19.9	40.5	58.3	71.1	76.7	83.4	87.0	86.9	79.6	75.6	70.4
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	60.0	55.9	52.4	49.3	46.6	44.5	42.6	40.4	38.2	36.9	36.7	37.1	36.3	33.2	29.7	28.1	27.5	25.6	23.7	21.9	20.6	20.3	20.4	21.0	21.4
τ	65.9	61.4	57.5	54.1	51.2	48.8	46.8	44.3	41.9	40.5	40.3	40.7	39.8	36.4	32.6	30.8	30.2	28.1	26.0	24.0	22.6	22.3	22.4	23.1	23.5
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	21.5	21.1	20.6	20.3	19.3	19.5	19.8	21.3	24.0	28.1	32.4	40.6	48.8	55.2	61.5	65.8	70.2	72.8	75.5	78.1	80.8	81.5	82.3	82.6	83.0
τ	23.6	23.2	22.6	22.3	21.7	21.4	21.7	23.4	26.3	30.8	35.6	44.6	53.6	60.6	67.5	72.2	77.1	79.9	82.9	85.7	88.7	89.5	90.3	90.7	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	1.578	1.568	1.563	1.557	1.557	1.551	1.549	1.549	1.546	1.545	1.543	1.541	1.536

Abbe-Number

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

Color Specifications

	x	y	Y	λ _d	P _e
A	.382	.386	33.4	489	17
C	.252	.254	35.8	476	28
D ₆₅	.255	.268	35.9	477	27

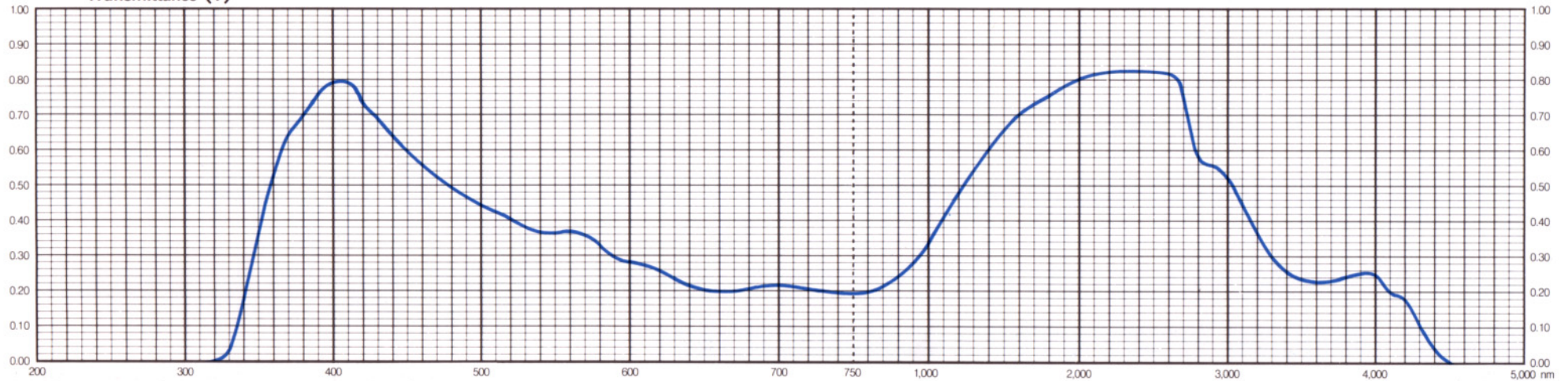
Properties

Chemical		Thermal				Mechanical		Other
D _w	D _A	T _g	T _s	α _{-30/70}	α _{100/300}	H _K	F _A	S
2	1	460	505	97	114	490	110	2.81

Tolerances of Transmittance (T)

B-R Conversion Value	Filter Factor
V (mired)	P
- 100 ± 5	1

Transmittance (T)



All data are mean values of various melts.