

Light Balancing Filter (Amber)

LA-140

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												.08	.27	.54	.73	.72	.68	.67	1.1	2.0	3.9	7.0	11.8	17.6	22.9	
τ												.09	.29	.59	.80	.79	.74	.73	1.2	2.2	4.3	7.6	12.9	19.2	25.0	
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	26.5	28.7	30.1	30.9	32.0	33.7	36.0	39.3	43.4	48.2	53.1	58.2	62.5	67.0	70.7	74.0	76.6	78.6	79.9	80.7	81.1	80.8	79.1	77.0	75.3	
τ	28.9	31.3	32.9	33.7	34.9	36.8	39.3	42.9	47.4	52.6	58.0	63.5	68.2	73.1	77.2	80.8	83.6	85.8	87.2	88.1	88.5	88.2	86.4	84.1	82.2	
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	73.1	71.4	70.7	69.5	67.0	66.0	67.9	75.6	84.4	88.3	89.5	90.2	90.9	91.4	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.1	90.4	89.6	89.0	88.4
τ	79.8	77.9	77.2	75.9	73.1	72.1	74.1	82.5	92.1	96.4	97.7	98.5	99.2	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.5	98.7	97.8	97.2	96.5

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			1.540	1.536	1.535	1.531	1.529	1.529	1.527	1.526	1.525	1.523	1.519

Abbe-Number

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

Color Specifications

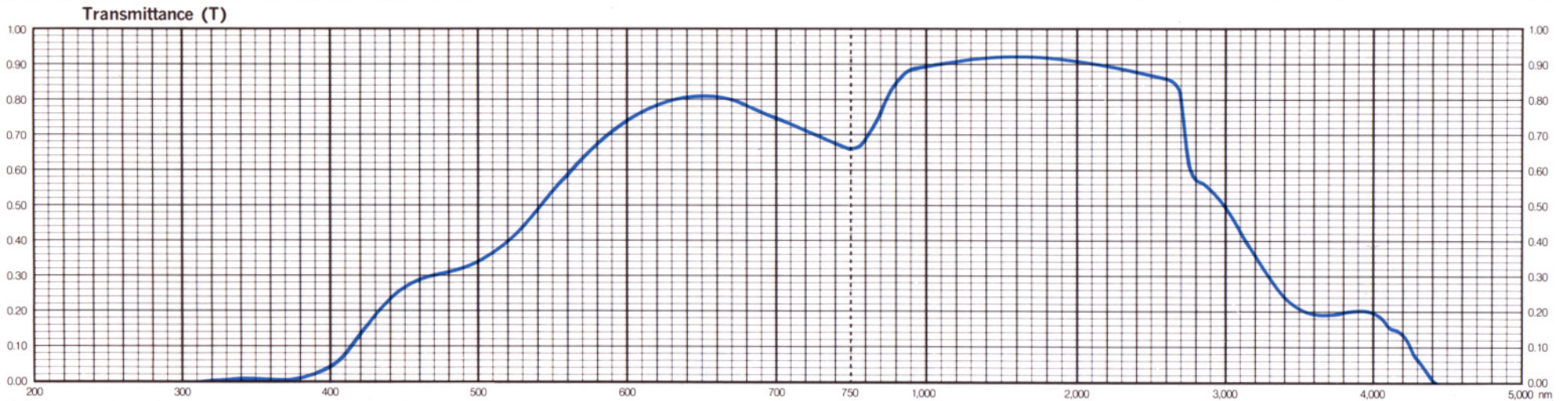
	x	y	Y	λ _d	P _e
A	.518	.416	61.2	590	55
C	.407	.385	55.9	582	44
D ₆₅	.408	.394	55.7	582	45

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	515	565	99	110	530	130	2.68

Tolerances of Transmittance (T)

B-R Conversion Value	Filter Factor
V (mired)	P
+ 140 ± 5	1



All data are mean values of various melts.