

Light Balancing Filter (Amber)

LA-40

Catalog Thickness $t = 2.5$ mm

Reflection Factor $P_d = 0.909$

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																	.28	3.4	11.8	23.6	36.1	45.2	49.4	53.1	55.3
τ																	.31	3.7	13.0	26.0	39.7	49.7	54.3	58.4	60.8
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	56.6	57.6	58.8	60.0	60.9	62.2	63.4	64.7	66.1	67.4	69.0	70.5	72.0	73.3	74.5	75.7	76.2	76.8	77.3	77.9	78.6	79.6	80.7	81.9	83.1
τ	62.3	63.4	64.7	66.0	67.0	68.4	69.7	71.2	72.7	74.1	75.9	77.6	79.2	80.6	82.0	83.3	83.8	84.5	85.0	85.7	86.5	87.6	88.8	90.1	91.4
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	84.0	85.0	85.3	86.0	86.4	86.8	88.1	89.0	89.8	90.1	90.4	90.7	90.8	90.8	90.8	90.8	90.8	90.8	90.8	90.3	89.7	88.8	87.9	87.5	87.0
τ	92.4	93.5	93.8	94.6	95.1	95.5	96.9	97.9	98.8	99.1	99.5	99.8	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.3	98.7	97.7	96.7	96.3	95.7

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	1.572	1.566	1.566	1.560	1.557	1.557	1.554	1.554	1.552	1.550	1.545

Abbe-Number

$$\nu_d = \frac{n_d - 1}{n_F - n_C} = 47$$

Color Specifications

	x	y	Y	λ_d	P_e
A	.469	.413	71.4	588	19
C	.336	.339	69.6	579	13
D_{65}	.338	.351	69.6	579	13

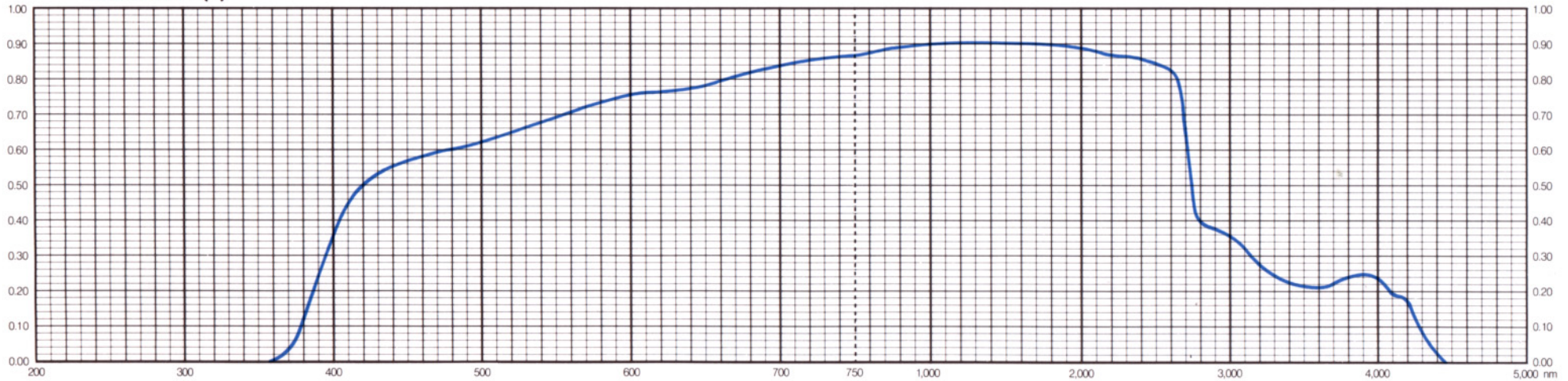
Properties

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	505	550	88	102	520	130	2.76

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.