

Sharp Cut Filter (Yellow)

Y-48

Catalog Thickness t = 2.5 mm

Reflection Factor P_d = 0.916

Diagram-1

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 ⁻³
τ																										2·10 ⁻³
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	7·10 ⁻³	.04	4.3	39.4	72.5	85.2	88.8	90.2	90.8	91.1	91.3	91.3	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.4	
τ	8·10 ⁻³	.04	4.7	43.0	79.1	93.0	96.9	98.5	99.1	99.5	99.7	99.7	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.8	
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	91.4	91.4	91.4	91.4	91.4	91.4	91.4	91.2	91.2	91.2	91.2	91.3	91.3	91.5												
τ	99.8	99.8	99.8	99.8	99.8	99.8	99.8	99.6	99.6	99.6	99.6	99.7	99.7	99.9												

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				1.535	1.535	1.530	1.528	1.528	1.526	1.525	1.524	1.522	1.518

Abbe-Number

$$\nu_d = \frac{n_d - 1}{n_F - n_C} = 57$$

Color Specifications

	x	y	Y	λ _d	P _e
A	.498	.468	89.8	580	77
C	.419	.505	87.2	570	80
D ₆₅	.415	.510	87.5	570	79

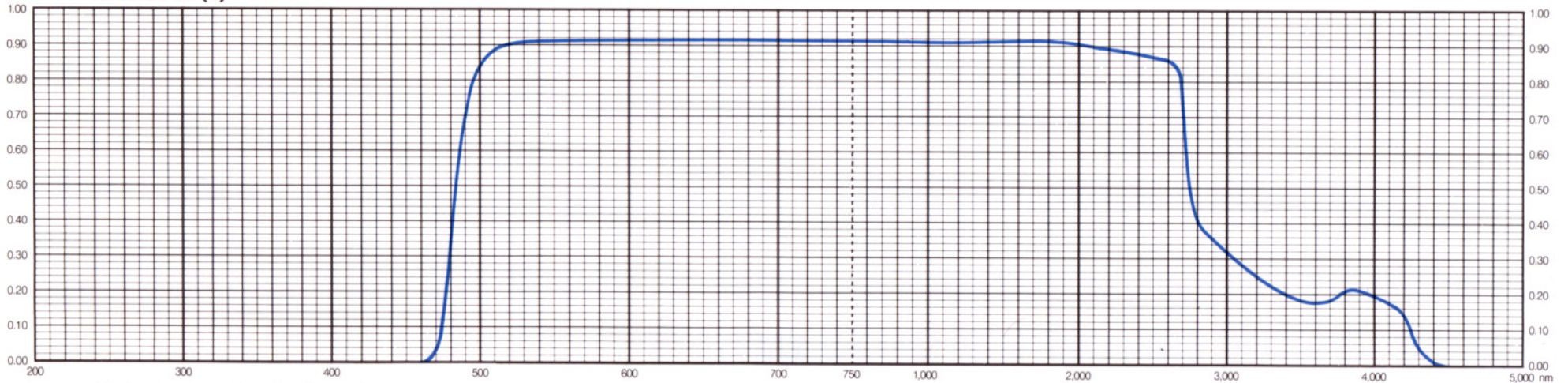
Properties

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	560	625	94	105	540	130	2.67

Tolerances of Transmittance (T)

Transition Wavelength	Transition Interval	Average High Transmittance
λT(nm)	Δλ(nm)	T _H (%)
480 ± 5	< 25	> 85

Transmittance (T)



All data are mean values of various melts.