

Sharp Cut Filter (Yellow)

Y-50

Catalog Thickness t = 2.5 mm

Reflection Factor P_d = 0.913

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																										
τ																										
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				.01	5.8	40.0	71.3	84.0	88.3	90.0	90.8	91.1														
τ				.01	6.4	43.8	78.1	92.0	96.7	98.6	99.5	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																										
τ																										

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					1.548	1.544	1.541	1.541	1.539	1.538	1.537	1.535	1.531

Abbe-Number

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

Color Specifications

	x	y	Y	λ _d	P _e
A	.516	.470	87.0	582	91
C	.455	.521	81.8	573	94
D ₆₅	.450	.525	82.2	572	93

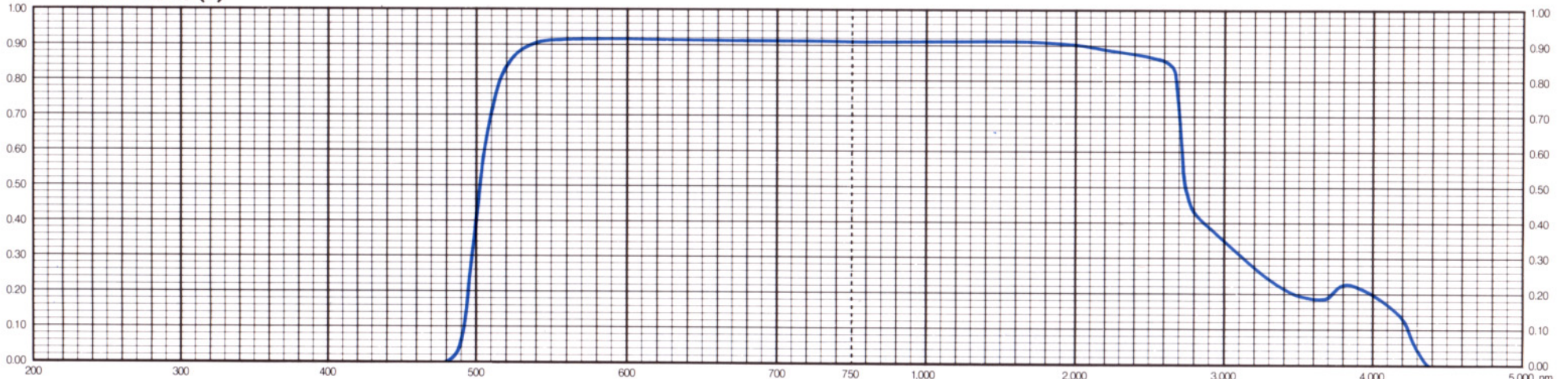
Properties

Chemical		Thermal				Mechanical		Other
D _w	D _A	T _g	T _s	$\frac{\alpha}{-30/70}$	$\frac{\alpha}{100/300}$	H _K	F _A	S
2	1	560	620	96	108	540	130	2.68

Tolerances of Transmittance (T)

Transition Wavelength	Transition Interval	Average High Transmittance
λT(nm)	Δλ(nm)	T _H (%)
500 ± 5	< 25	> 85

Transmittance (T)



All data are mean values of various melts.