

Sharp Cut Filter (Yellow)

Y-44

Catalog Thickness t = 2.5 mm

Reflection Factor P_d = 0.915

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																									1.1	40.4
τ																									1.2	44.2
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	75.1	84.3	87.5	89.2	90.1	90.4	90.6	90.7	90.8	90.9	91.2	91.4														
τ	82.1	92.1	95.6	97.5	98.5	98.8	99.0	99.1	99.2	99.3	99.7	99.9														
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			1.546	1.542	1.541	1.537	1.535	1.535	1.532	1.532	1.530	1.529	1.525

Abbe-Number

$$V_d = \frac{n_d - 1}{n_F - n_C} = 59$$

Color Specifications

	x	y	Y	λ _d	P _e
A	.462	.426	91.1	580	23
C	.337	.371	90.5	568	22
D ₆₅	.338	.380	90.7	568	21

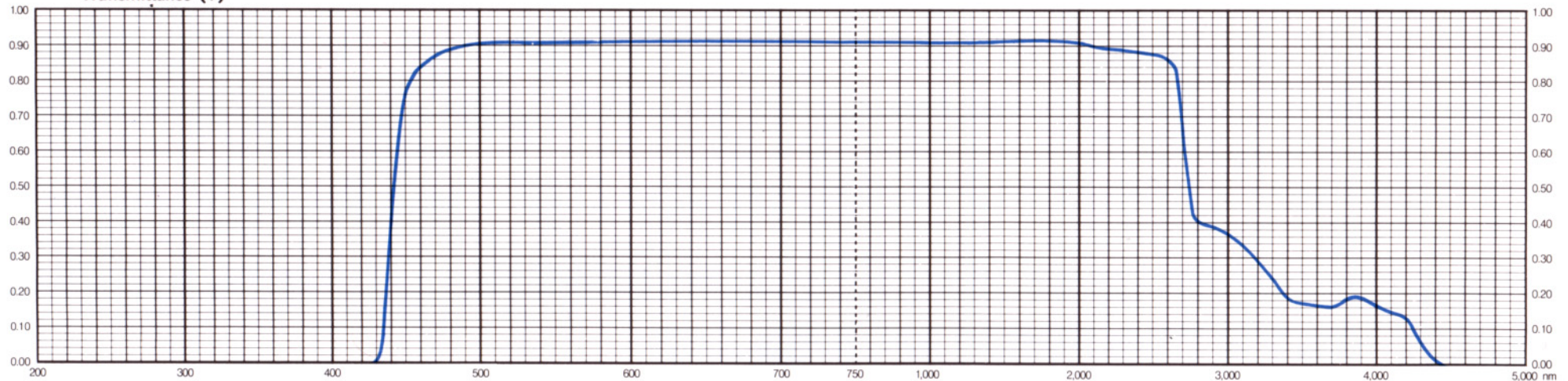
Properties

Chemical		Thermal					Mechanical		Other
D _w	D _A	T _g	T _s	α _{-30/70}	α _{100/300}	H _k	F _A	S	
1	2	570	600	99	107	540	130	2.59	

Tolerances of Transmittance (T)

Transition Wavelength	Transition Interval	Average High Transmittance
λT(nm)	Δλ(nm)	T _H (%)
440 ± 5	< 25	> 85

Transmittance (T)



All data are mean values of various melts.

HOYA 8304E