Ultraviolet Transmitting, Visible Absorbing Filter

U-350

Catalog Thickness t = 2.5 mm | Reflection Factor $P_d = 0.908$ | Diagram-7

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											.03	2.0	12.5	29.1	43.0	50.9	50.9	39.8	14.0	.25					
τ											.03	2.2	13.8	32.0	47.4	56.1	56.1	43.8	15.4	.28					
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																								$3 \cdot 10^{-3}$	.07
τ																								$3 \cdot 10^{-3}$	.08
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	.33	.62	.67	.58	.60	.46	$7 \cdot 10^{-3}$																		
τ	.36	.68	.74	.64	.66	.51	$8 \cdot 10^{-3}$																		

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							(1.561)						

Abbe-Number

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

Color Specifications

	x	y	Y	λ_d	P_e
A	—	—	—	—	—
C	—	—	—	—	—
D_{65}	—	—	—	—	—

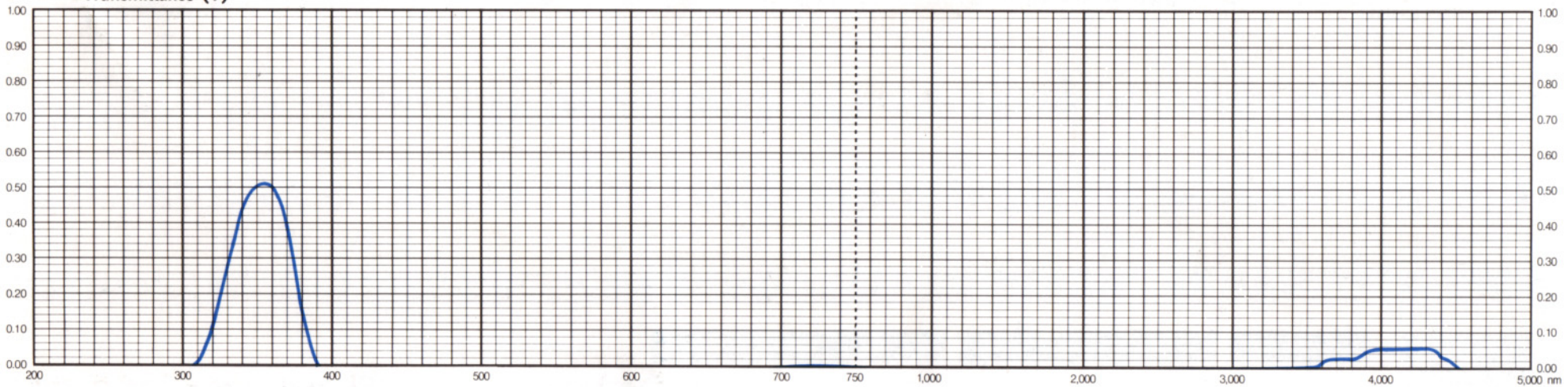
Properties

Chemical		Thermal				Mechanical		Other
D_W	D_A	T_g	T_s	$\alpha_{-30/70}$	$\alpha_{100/300}$	H_K	F_A	S
3	1	525	570	94	111	560	140	2.83

Tolerances of Transmittance (T)

Wavelength for Max. Transmittance	Maximum Transmittance	Transmittance at 254 nm	Transmittance at 405 nm
λT_{max} (nm)	T_{max} (%)	T_{254} (%)	T_{405} (%)
354 ± 5	50 ± 5	< 0.01	< 0.5

Transmittance (T)



All data are mean values of various melts.

HOYA 8304E