

Ultraviolet Transmitting, Visible Absorbing Filter

U-330

Catalog Thickness t = 2.5 mm

Reflection Factor P_a = 0.910

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			.02	1.0	21.5	52.8	67.9	78.0	83.9	86.9	88.6	89.2	89.3	89.6	89.2	88.5	86.9	82.6	70.2	45.5	18.4	5.2	1.8	.77	.50
τ			.02	1.1	23.6	58.0	74.6	85.7	92.2	95.5	97.4	98.0	98.1	98.5	98.0	97.3	95.5	90.8	77.1	50.0	20.2	5.7	2.0	.85	.55
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	.54	.63	.57	.42	.28	.14	.06	.02	8•10 ⁻³	6•10 ⁻³	7•10 ⁻³	4•10 ⁻³							1•10 ⁻³	6•10 ⁻³	.06	.63	5.1	17.5	33.2
τ	.59	.69	.63	.46	.31	.15	.07	.02	9•10 ⁻³	7•10 ⁻³	8•10 ⁻³	4•10 ⁻³							1•10 ⁻³	7•10 ⁻³	.07	.69	5.6	19.2	36.5
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	45.0	50.6	51.9	50.0	46.2	42.5	28.3	25.2	26.1	29.3	33.1	29.3	15.0	9.1	8.2	8.0	9.0	10.5	11.2	13.5	17.3	20.9	22.5	24.2	26.5
τ	49.5	55.6	57.0	54.9	50.8	46.7	31.1	27.7	28.7	32.2	36.4	32.2	16.5	10.0	9.0	8.8	9.9	11.5	12.3	14.8	19.0	23.0	24.7	26.6	29.1

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							(1.554)						

Abbe-Number

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

Color Specifications

	x	y	Y	λ _d	P _e
A	.570	.209	0.2	- 541	93
C	.285	.089	0.1	- 556	87
D ₆₅	.281	.086	0.1	- 557	88

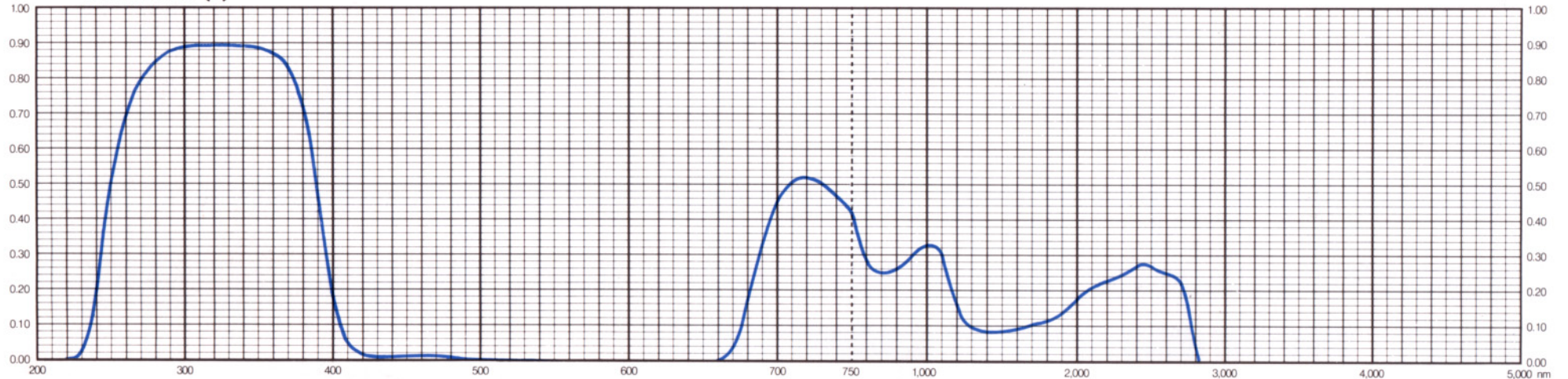
Properties

Chemical		Thermal				Mechanical		Other
D _w	D _A	T _g	T _s	α _{-30/70}	α _{100/300}	H _K	F _A	S
4	5	470	505	82	93	420	230	2.78

Tolerances of Transmittance (T)

Wavelength for Max. Transmittance	Maximum Transmittance	Transmittance at 254 nm	Transmittance at 405 nm
λ _{Tmax} (nm)	T _{max} (%)	T ₂₅₄ (%)	T ₄₀₅ (%)
330 ± 5	85 ± 5	> 40	< 15

Transmittance (T)



All data are mean values of various melts.