

Ultraviolet Transmitting, Visible Absorbing Filter

U-330

Catalog Thickness t = 2.5 mm Reflection Factor P<sub>r</sub> = 0.910 Diagram-7

Transmittance (T) & Internal Transmittance (τ) units: (%)

	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
λ <sub>nm</sub>																									
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 <sub>nm</sub>	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 <sup>-3</sup>	6·10 <sup>-3</sup>	7·10 <sup>-3</sup>	4·10 <sup>-3</sup>							1·10 <sup>-3</sup>	6·10 <sup>-3</sup>	.06	.63	5.1	17.5	33.2
τ	.59	.69	.63	.46	.31	.15	.07	.02	9·10 <sup>-3</sup>	7·10 <sup>-3</sup>	8·10 <sup>-3</sup>	4·10 <sup>-3</sup>							1·10 <sup>-3</sup>	7·10 <sup>-3</sup>	.07	.69	5.6	19.2	36.5
λ <sub>nm</sub>	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 <sub>nm</sub>	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

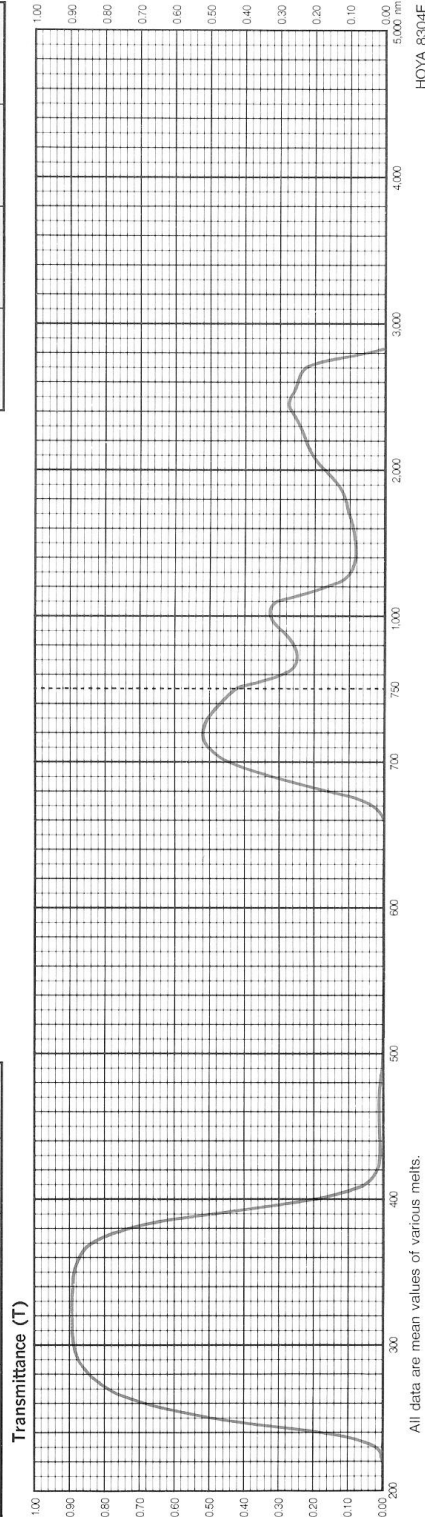
	x	y	Y	λ <sub>d</sub>	P <sub>e</sub>
A	.570	.209	0.2	— 541	93
C	.285	.089	0.1	— 556	87
D <sub>65</sub>	.281	.086	0.1	— 557	88

Properties

Chemical		Thermal		Mechanical		Other	
D <sub>v</sub>	D <sub>A</sub>	T <sub>g</sub>	T <sub>s</sub>	H <sub>k</sub>	F <sub>A</sub>	F <sub>A</sub>	S
4	5	470	505	82	93	230	2.78

Tolerances of Transmittance (T)

Wavelength for Max Transmittance	Maximum Transmittance	Transmittance at 254 nm	Transmittance at 405 nm
λT <sub>max</sub> (nm)	T <sub>max</sub> (%)	T <sub>254</sub> (%)	T <sub>405</sub> (%)
330 ± 5	85 ± 5	> 40	< 15



WHILE EVERY ATTEMPT HAS BEEN MADE TO VERIFY THE SOURCE OF THE INFORMATION, NO RESPONSIBILITY IS ACCEPTED FOR ACCURACY OF DATA.

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