

Blue Filter

B-390

Catalog Thickness t = 2.5 mm

Reflection Factor $P_g = 0.917$

Diagram-2

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												.09	2.3	14.0	33.4	51.0	63.0	70.0	74.2	77.1	77.1	75.5	73.0	68.5	62.9
τ												.10	2.5	15.3	36.4	55.6	68.7	76.3	80.9	84.1	84.1	82.3	79.6	74.7	68.6
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	55.0	45.4	30.8	15.4	4.4	.80	.05	$7 \cdot 10^{-3}$	$6 \cdot 10^{-3}$	.01	.03	$5 \cdot 10^{-3}$	$1 \cdot 10^{-3}$										$1 \cdot 10^{-3}$	.01	.14
τ	60.0	49.5	33.6	16.8	4.8	.87	.05	$8 \cdot 10^{-3}$	$7 \cdot 10^{-3}$	.01	.03	$5 \cdot 10^{-3}$	$1 \cdot 10^{-3}$										$1 \cdot 10^{-3}$	.01	.15
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	.64	1.1	1.3	1.4	1.2	1.1	1.0	1.2	1.9	2.9	4.0	5.4	2.9	2.2	3.4	2.8	4.6	5.5	6.8	14.2	26.0	36.3	46.0	54.2	59.9
τ	.70	1.2	1.4	1.5	1.3	1.2	1.1	1.3	2.1	3.2	4.4	5.9	3.2	2.4	3.7	3.1	5.0	6.0	7.4	15.5	28.4	39.6	50.2	59.1	65.3

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	1.535	1.528	1.524										

Abbe-Number

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

Color Specifications

	x	y	Y	λ_d	P_e
A	.151	.030	0.5	457	99
C	.155	.024	1.6	453	99
D_{65}	.154	.024	1.5	454	99

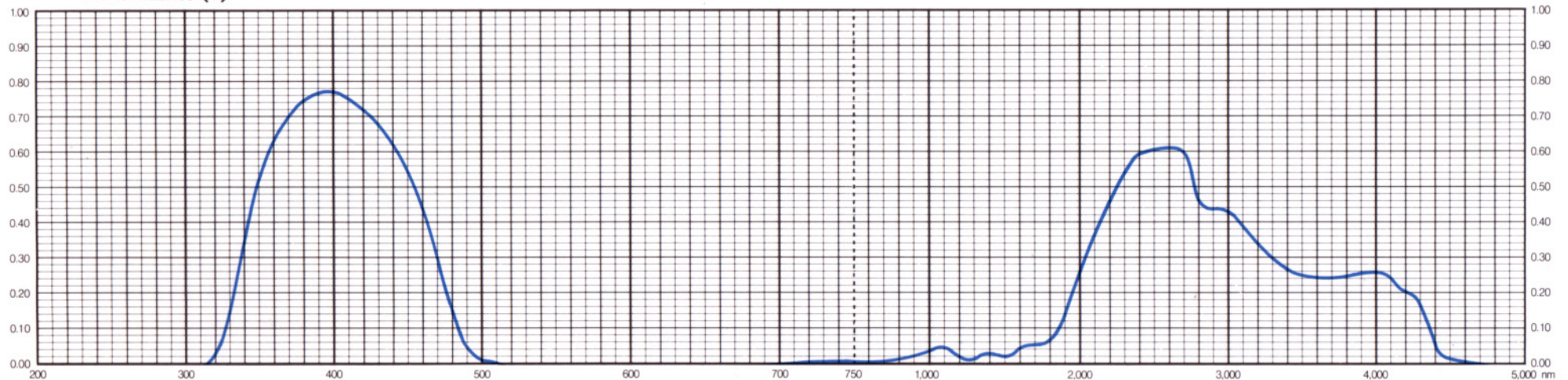
Properties

Chemical		Thermal				Mechanical		Other
D_w	D_A	T_g	T_s	$\alpha_{-30/70}$	$\alpha_{100/300}$	H_K	F_A	S
1	1	485	535	92	104	510	110	2.57

Tolerances of Transmittance (T)

Wavelength for Max. Transmittance	Maximum Transmittance	Less than 1% Wavelength at Short-wave Side	Less than 5% Wavelength at Long-wave Side
λT_{max} (nm)	T_{max} (%)	$\lambda s1$ (nm)	$\lambda l5$ (nm)
394 ± 5	78 ± 3	310	510

Transmittance (T)



All data are mean values of various melts.

HOYA 8304E