Blue Filter

B-370

Catalog Thickness t = 2.5 mm | Reflection Factor $P_g = 0.923$ | 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											.35	8.0	29.3	52.0	67.8	76.3	80.4	81.5	81.2	77.8	71.6	63.0	51.8	37.7	24.0
τ											.38	8.7	31.7	56.3	73.5	82.7	87.1	88.3	88.0	84.3	77.6	68.3	56.1	40.8	26.0
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	12.0	4.8	1.5	.37	.08	.02	$8\cdot10^{-3}$	$6\cdot10^{-3}$	$9\cdot10^{-3}$	.02	.03	.01	$2\cdot10^{-3}$								$1\cdot10^{-3}$	$2\cdot10^{-3}$	$4\cdot10^{-3}$	.01	.25
τ	13.0	5.2	1.6	.40	.09	.02	$9\cdot10^{-3}$	$7\cdot10^{-3}$	.01	.02	.03	.01	$2\cdot10^{-3}$								$1\cdot10^{-3}$	$2\cdot10^{-3}$	$4\cdot10^{-3}$	.01	.27
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	3.2	15.0	35.0	55.0	68.0	75.4	76.2	68.2	59.1	49.8	39.2	18.0	8.0	6.8	6.3	6.2	7.4	7.2	7.5	9.8	13.0	16.4	20.2	25.5	29.4
τ	3.5	16.3	37.9	59.6	73.7	81.7	82.6	73.9	64.0	54.0	42.5	19.5	8.7	7.4	6.8	6.7	8.0	7.8	8.1	10.6	14.1	17.8	21.9	27.6	31.9

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	1.509	1.503	1.500										

Abbe-Number

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

Color Specifications

	x	y	Y	λ_d	P_e
A	.176	.019	0.1	432	97
C	.166	.012	0.3	439	99
D_{65}	.166	.012	0.2	439	99

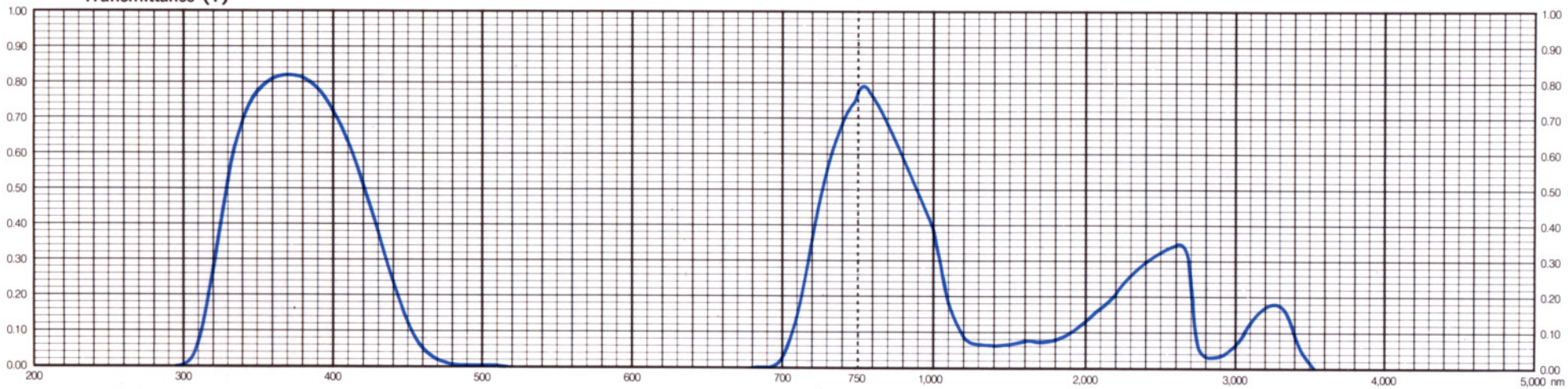
Properties

Chemical		Thermal				Mechanical		Other
D_W	D_A	T_g	T_s	$\alpha_{-30/70}$	$\alpha_{100/300}$	H_K	F_A	S
2	1	480	570	45	48	570	70	2.36

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)
370 ± 5	82 ± 3	290	480

Transmittance (T)



All data are mean values of various melts.

HOYA 8304E