

Blue Filter

B-460

Catalog Thickness t = 2.5 mm

Reflection Factor P_d = 0.916

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													.02	1.0	9.4	25.6	42.0	55.0	64.4	71.0	75.4	78.7	81.0	82.6	84.0
τ													.02	1.1	10.3	27.9	45.9	60.0	70.3	77.5	82.3	85.9	88.4	90.2	91.7
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	85.1	85.8	85.7	85.3	83.9	81.4	77.6	72.0	65.5	58.0	50.0	42.0	34.4	27.3	21.5	16.5	12.5	9.3	7.0	5.2	4.0	2.8	2.0	1.5	1.3
τ	92.9	93.7	93.6	93.1	91.6	88.9	84.7	78.6	71.5	63.3	54.6	45.9	37.6	29.8	23.5	18.0	13.6	10.2	7.6	5.7	4.4	3.1	2.2	1.6	1.4
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	1.1	.92	.81	.73	.68	.64	.44	.70	1.0	1.8	3.0	7.2	14.0	22.5	31.6	40.8	49.0	56.0	62.0	66.6	70.2	73.4	75.2	77.2	78.5
τ	1.2	1.0	.88	.80	.74	.70	.48	.76	1.1	2.0	3.3	7.9	15.3	24.6	34.5	44.5	53.5	61.1	67.7	72.7	76.6	80.1	82.1	84.3	85.7

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	1.553	1.545	1.541	1.537	1.536	1.532	1.530	1.529					

Abbe-Number

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

Color Specifications

	x	y	Y	λ _d	P _e
A	.273	.402	36.7	494	41
C	.195	.251	45.0	484	49
D ₆₅	.196	.267	45.5	485	48

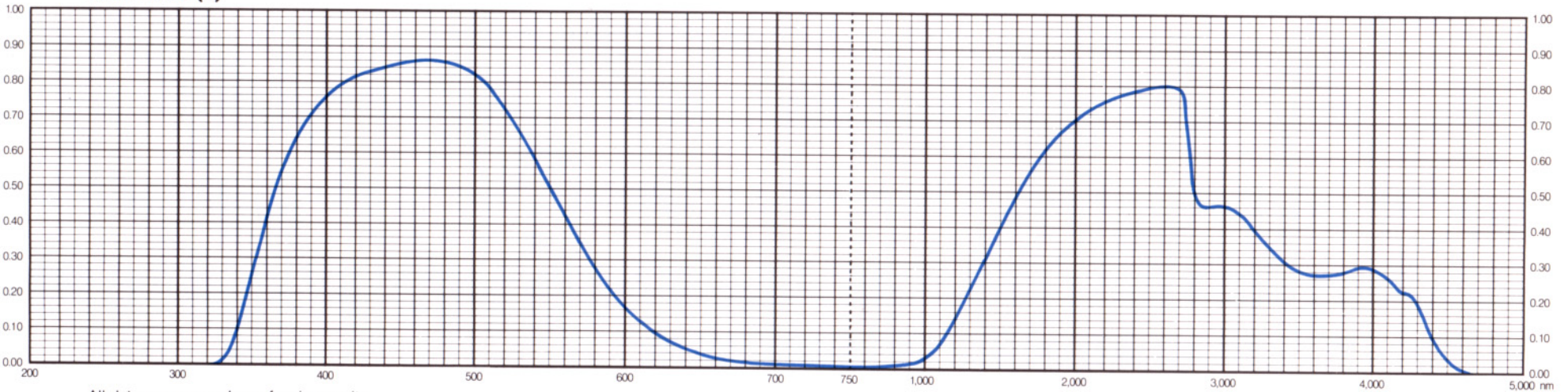
Properties

Chemical		Thermal				Mechanical		Other
D _w	D _A	T _g	T _s	α _{-30/70}	α _{100/300}	H _k	F _A	S
2	1	505	555	94	109	540	110	2.60

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
λ _{Tmax} (nm)	T _{max} (%)	λs1 (nm)	λ/5 (nm)
464 ± 5	85 ± 3	320	700

Transmittance (T)



All data are mean values of various melts.