

Green Filter

G-550

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											$1 \cdot 10^{-3}$	.01	$5 \cdot 10^{-3}$	$1 \cdot 10^{-3}$							$2 \cdot 10^{-3}$	$4 \cdot 10^{-3}$	.06	.34	1.5
τ											$1 \cdot 10^{-3}$	.01	$5 \cdot 10^{-3}$	$1 \cdot 10^{-3}$							$2 \cdot 10^{-3}$	$4 \cdot 10^{-3}$	.07	.37	1.6
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	5.0	13.2	25.1	37.9	50.5	61.5	69.8	76.2	80.0	82.4	83.0	82.4	80.4	76.9	73.0	68.7	64.0	60.0	57.1	56.3	55.7	55.5	58.1	59.8	59.8	
τ	5.5	14.4	27.4	41.4	55.1	67.1	76.2	83.2	87.3	90.0	90.6	90.0	87.8	84.0	79.7	75.0	69.9	65.5	62.3	61.5	60.8	60.6	63.4	65.3	65.3	
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	62.7	66.5	70.1	73.5	76.5	79.0	86.9	88.9	89.6	90.1	90.5	91.0	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.5	91.3	90.6	90.3	90.0
τ	68.5	72.6	76.5	80.2	83.5	86.2	94.9	97.1	97.8	98.4	98.8	99.3	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.9	99.7	98.9	98.6	98.3

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				1.536	1.536	1.532	1.529	1.529	1.527	1.527	1.525	1.523	1.519

Abbe-Number

$$\nu_d = \frac{n_d - 1}{n_F - n_C} = 58$$

Color Specifications

	x	y	Y	λ_d	P_e
A	.472	.478	72.6	576	66
C	.387	.492	72.3	567	68
D ₆₅	.384	.498	72.6	566	67

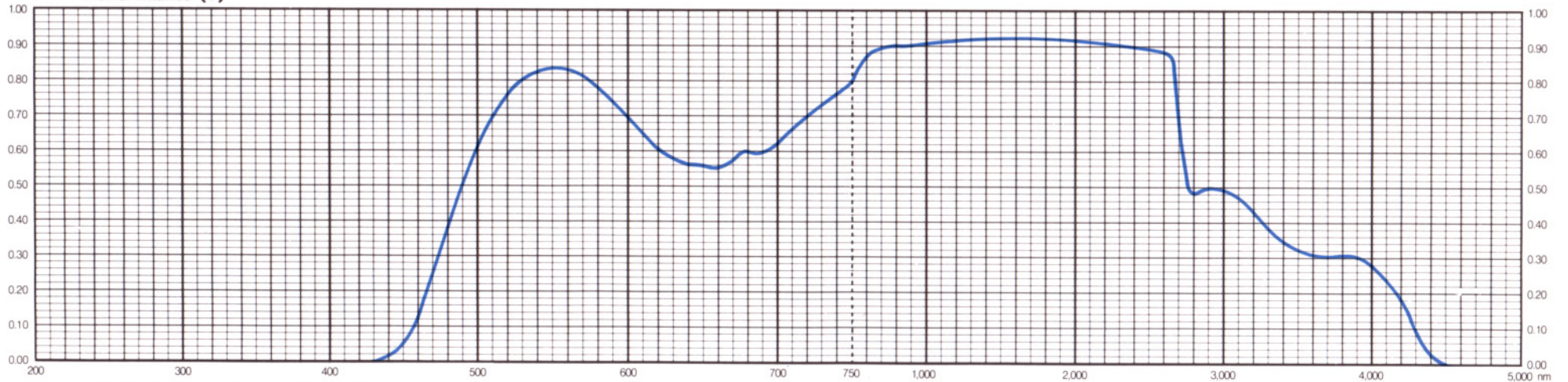
Properties

Chemical		Thermal				Mechanical		Other
D _w	D _A	T _g	T _s	$\alpha_{-30/70}$	$\alpha_{100/300}$	H _K	F _A	S
4	1	545	590	90	104	560	130	2.58

Tolerances of Transmittance (T)

Wavelength for Max. Transmittance	Maximum Transmittance	Less than 1% Wavelength at Short-Wavelength
λT_{max} (nm)	T _{max} (%)	$\lambda \leq 1$ (nm)
550 ± 5	82 ± 3	400

Transmittance (T)



All data are mean values of various melts.

HOYA 8304E