Infrared Transmitting Filter

RM-100

Catalog Thickness t= 2.5 mm | Reflection Factor P_d = 0.897 | Diagram-1

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

λnm	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																									
τ																									
λnm	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																									
τ																									
λnm	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					$1\cdot10^{-3}$	$5\cdot10^{-3}$	.35	3.8	16.5	35.9	53.8	74.7	80.8	82.1	82.4	82.7	82.9	83.0	83.0	84.5	86.0	86.0	86.0	85.8	85.7
τ					$1\cdot10^{-3}$	$6\cdot10^{-3}$	.39	4.2	18.4	40.0	60.0	83.3	90.1	91.5	91.9	92.2	92.4	92.5	92.5	94.2	95.9	95.9	95.9	95.7	95.5

Refractive Indices

Symbol	i	h	g	F′	F	e	d	D	C′	C	r	A′	t
λnm	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							(1.606)						

Abbe-Number

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

Color Specifications

	x	y	Y	λ_d	P_e
A	—	—	—	—	—
C	—	—	—	—	—
D_{65}	—	—	—	—	—

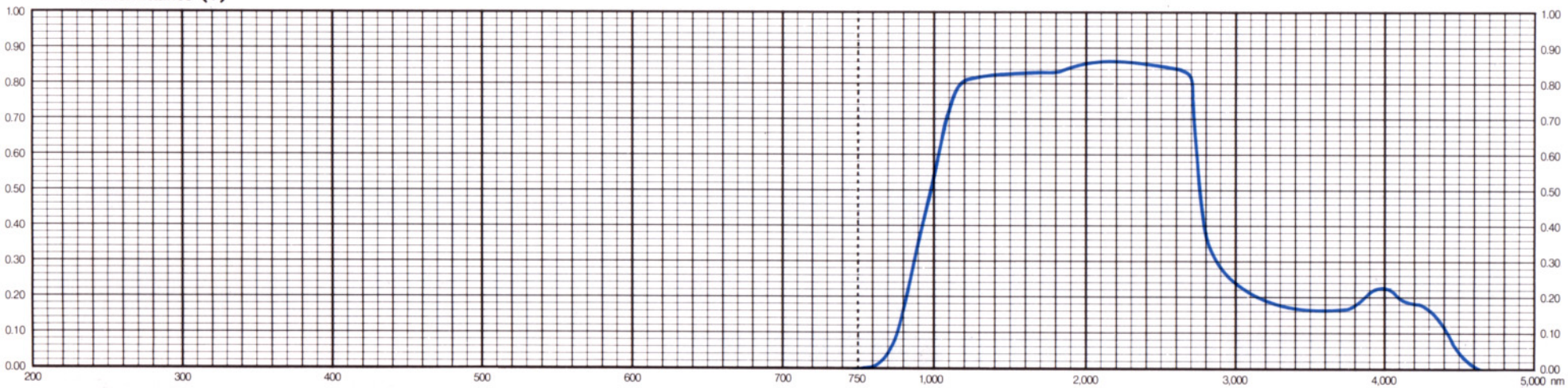
Properties

Chemical		Thermal				Mechanical		Other
D_W	D_A	T_g	T_s	$\alpha_{-30/70}$	$\alpha_{100/300}$	H_K	F_A	S
3	4	450	490	98	115	460	180	3.23

Tolerances of Transmittance (T)

Wavelength for less than 5% Transmittance	Wavelength for over 80% Transmittance
λ5 (nm)	λ80 (nm)
850	1200

Transmittance (T)



All data are mean values of various melts.

HOYA 8304E