Infrared Transmitting Filter

RM-90

Catalog Thickness t= 2.5 mm | Reflection Factor P_d=0.904 | 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																				$1\cdot10^{-3}$	$2\cdot10^{-3}$	$4\cdot10^{-3}$	$6\cdot10^{-3}$	.01	.02
τ																				$1\cdot10^{-3}$	$2\cdot10^{-3}$	$4\cdot10^{-3}$	$7\cdot10^{-3}$	.01	.02
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	.03	.06	.10	.17	.28	.46	3.8	16.4	38.1	59.4	74.5	81.8	86.2	87.1	87.2	87.3	87.5	87.4	87.2	87.6	88.0	87.5	86.8	86.1	85.3
τ	.03	.07	.11	.19	.31	.51	4.2	18.1	42.1	65.7	82.4	90.5	95.4	96.4	96.5	96.6	96.8	96.7	96.5	96.9	97.3	96.8	96.0	95.2	94.4

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							(1.580)						

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}	—	—	—	—	—

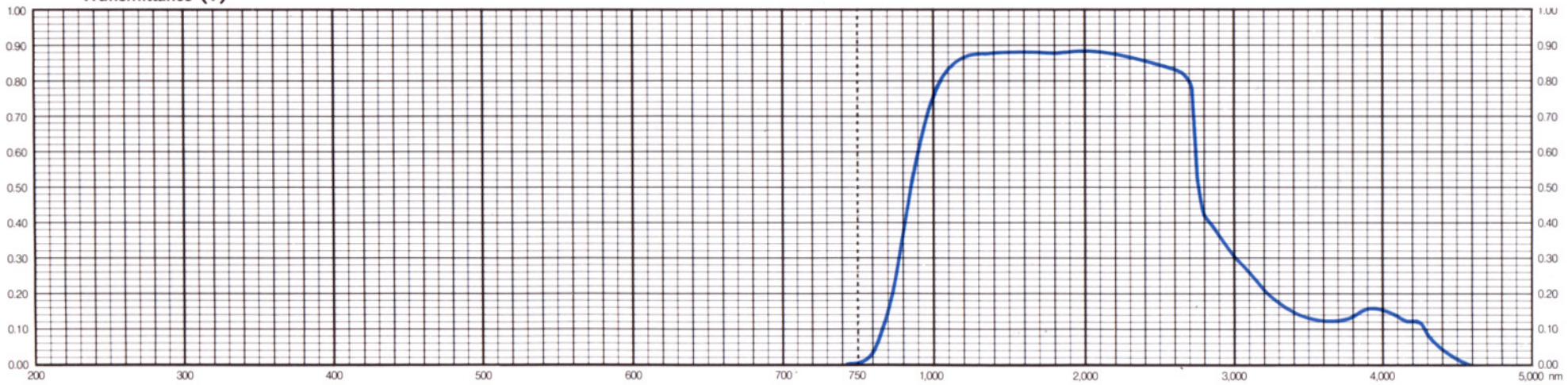
Properties

Chemical		Thermal				Mechanical		Other
D_W	D_A	T_g	T_s	$\alpha_{-30/70}$	$\alpha_{100/300}$	H_K	F_A	S
3	3	440	490	107	125	450	170	3.15

Tolerances of Transmittance (T)

Wavelength for less than 5% Transmittance	Wavelength for over 80% Transmittance
λ5 (nm)	λ80 (nm)
770	1050

Transmittance (T)



All data are mean values of various melts.

HOYA 8304E