

Infrared Transmitting Filter

IR-76

Catalog Thickness t = 2.5 mm

Reflection Factor $P_d = 0.911$

Diagram-1

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																										
τ																										
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																							$1 \cdot 10^{-3}$	$2 \cdot 10^{-3}$	$4 \cdot 10^{-3}$	$7 \cdot 10^{-3}$
τ																							$1 \cdot 10^{-3}$	$2 \cdot 10^{-3}$	$4 \cdot 10^{-3}$	$8 \cdot 10^{-3}$
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	.02	.06	.26	1.3	5.8	17.2	86.2	91.0																		
τ	.02	.07	.29	1.4	6.4	18.9	94.6	99.9																		

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							(1.552)					1.545	1.540

Abbe-Number

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

Color Specifications

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

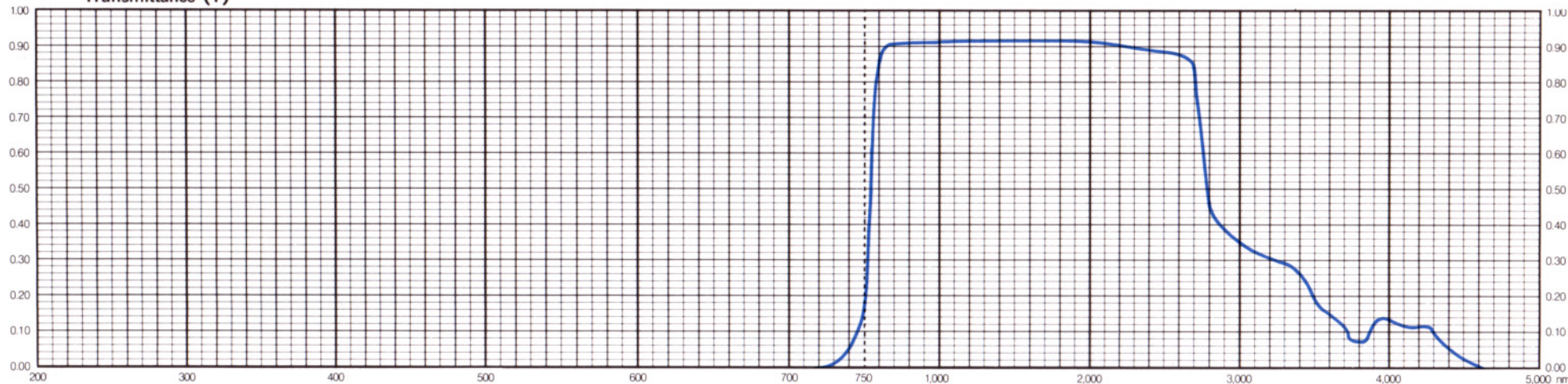
Properties

Chemical		Thermal				Mechanical		Other
D_w	D_A	T_g	T_s	$\alpha_{-30/70}$	$\alpha_{100/300}$	H_K	F_A	S
1	2	495	545	89	99	500	160	2.84

Tolerances of Transmittance (T)

Transition Wavelength	Transition Interval
λT (nm)	$\Delta \lambda$ (nm)
760 ± 10	< 60

Transmittance (T)



All data are mean values of various melts.

HOYA 8304E