

Infrared Transmitting Filter

IR-80

Catalog Thickness t= 2.5 mm

Reflection Factor $P_r=0.911$

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																										
τ																										
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	$6 \cdot 10^{-3}$.01	.03	.05	.11	.23	33.2	88.3	90.9																	
τ	$7 \cdot 10^{-3}$.01	.03	.06	.12	.25	36.4	96.9	99.8																	

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							(1.551)						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	—	—	—	—	—

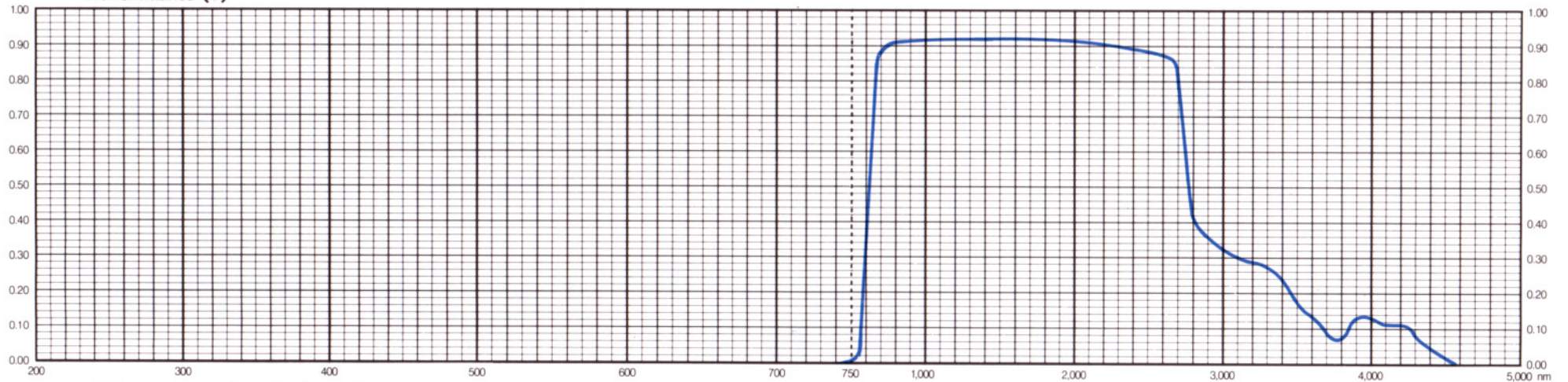
Properties

Chemical		Thermal				Mechanical		Other
D _w	D _A	T _g	T _s	$\alpha_{-30/70}$	$\alpha_{100/300}$	H _K	F _A	S
1	3	495	550	87	100	500	160	2.85

Tolerances of Transmittance (T)

Transition Wavelength	Transition Interval
λT (nm)	$\Delta \lambda$ (nm)
800 ± 10	< 60

Transmittance (T)



All data are mean values of various melts.