

**R-72**

**Infrared Transmitting Filter**

Catalog Thickness t = 2.5 mm      Reflection Factor P<sub>r</sub> = 0.911      Diagram-1

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

λ <sub>nm</sub>	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 <sub>nm</sub>	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 <sub>nm</sub>	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	1.1	12.4	38.5	63.6	78.2	85.2	90.8																			
τ	1.2	13.6	42.3	69.8	85.8	93.5	99.7																			

**Refractive Indices**

Symbol	i	h	g	F'	F	e	d	D	C'	C	r	A'	t
λ <sub>nm</sub>	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						(1.549)					1.544	1.542	1.538

**Abbe-Number**

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

**Color Specifications**

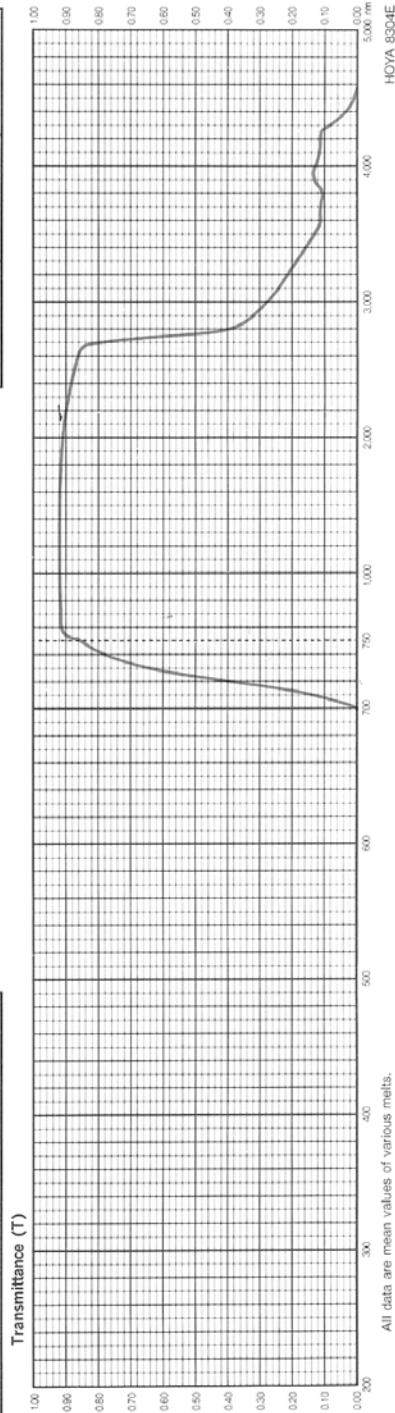
x	y	Y	λ <sub>d</sub>	P <sub>e</sub>
A	—	—	—	—
C	—	—	—	—
D <sub>65</sub>	—	—	—	—

**Properties**

Chemical		Thermal		Mechanical		Other	
D <sub>k</sub>	D <sub>h</sub>	T <sub>g</sub>	T <sub>h</sub>	H <sub>k</sub>	F <sub>k</sub>	F <sub>k</sub>	S
1	3	525	575	100	116	470	160
							2.86

**Tolerances of Transmittance (T)**

Transition Wavelength Δλ(nm)	720 ± 10
Transition Interval Δλ(nm)	< 45
Average High Transmittance T <sub>av</sub> (%)	> 85



All data are mean values of various melts.

HOYA 8304E

WHILE EVERY ATTEMPT HAS BEEN MADE TO VERIFY THE SOURCE OF THE INFORMATION, NO RESPONSIBILITY IS ACCEPTED FOR ACCURACY OF DATA.

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