DATA SHEET

HOYA R-72

Infrared Transmitting Filter

R-72

Catalog Thickness t = 2.5 mm | Reflection Factor P_e=0.911 | 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																								$4\cdot10^{-3}$	.05
τ																								$4\cdot10^{-3}$	.05
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	1.1	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
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							(1.549)				1.544	1.542	1.538

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}	—	—	—	—	—

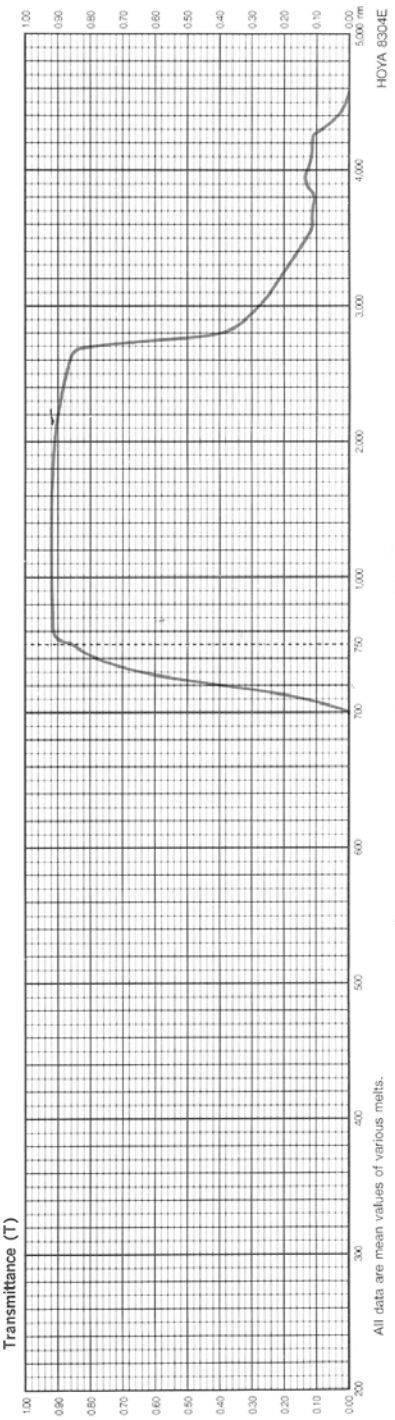
Properties

Chemical		Thermal				Mechanical		Other
D_W	D_A	T_u	T_s	$\alpha_{-30/70}$	$\alpha_{100/300}$	H_K	F_A	S
1	3	525	575	100	116	470	160	2.86

Tolerances of Transmittance (T)

Transition Wavelength	Transition Interval	Average High Transmittance
λT(nm)	$\Delta\lambda$(nm)	T_H(%)
720 ± 10	< 45	> 85

Transmittance (T)



All data are mean values of various melts.

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

UQG LTD, THE NORMAN INDUSTRIAL ESTATE, 99-101 CAMBRIDGE ROAD, MILTON, CAMBRIDGE, CB4 6AT, ENGLAND. TEL: +44 (0) 1223 420329 FAX: +44 (0) 1223 420506