

DATA SHEET

HOYA® LB-145

Light Balancing Filter (Blue)

LB-145

Catalog Thickness t= 2.5 mm Reflection Factor P_r=0.920 Diagram-4

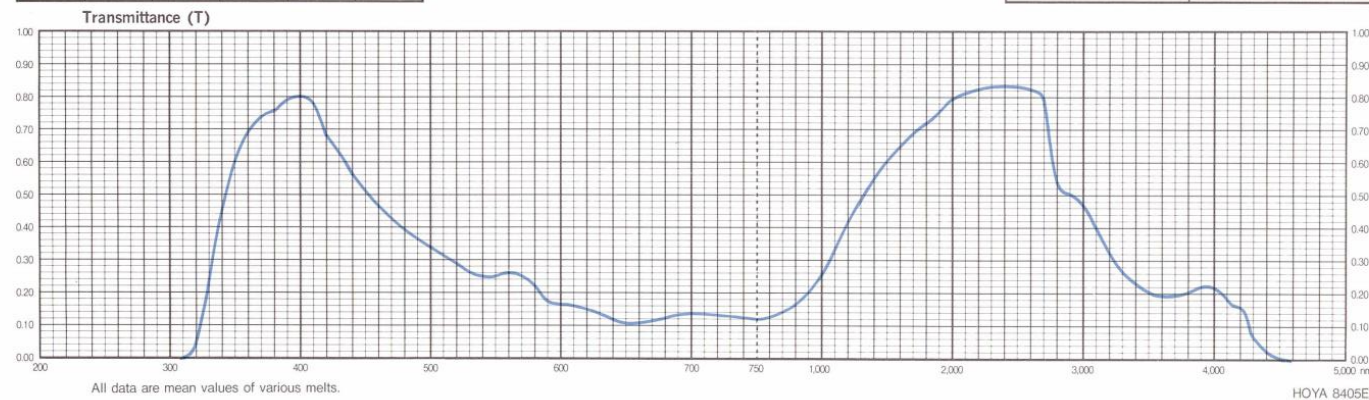
Transmittance (T) & Internal Transmittance (τ) units: (%)																									
λ _{nm}	200	210	220	230	240	250	260	270	280	290	300	310	320	330	340	350	360	370	380	390	400	410	420	430	440
T												.09	4.1	22.7	45.7	60.0	68.9	73.9	75.1	78.6	79.8	77.4	67.7	62.6	56.4
τ												.10	4.5	24.7	49.7	65.2	74.9	80.3	81.6	85.4	86.7	84.1	73.6	68.0	61.3
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	51.3	46.4	42.4	39.1	36.2	34.1	31.4	28.9	26.2	25.0	25.2	26.2	25.3	21.6	17.8	16.9	16.2	15.1	13.6	12.1	11.4	11.2	12.0	12.9	13.7
τ	55.8	50.4	46.1	42.5	39.3	37.1	34.1	31.4	28.5	27.2	27.4	28.5	27.5	23.5	19.3	18.4	17.6	16.4	14.8	13.2	12.4	12.2	13.0	14.0	14.9
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	14.0	13.7	13.4	13.1	12.9	12.6	13.0	14.5	17.2	21.1	25.6	33.9	42.2	49.2	56.2	61.1	66.0	69.1	72.3	76.1	79.8	81.0	82.3	82.9	83.5
τ	15.2	14.9	14.6	14.2	14.0	13.7	14.1	15.8	18.7	22.9	27.8	36.8	45.9	53.5	61.1	66.4	71.7	75.1	78.6	82.7	86.7	88.0	89.5	90.1	90.8

Refractive Indices													Abbe-Number		
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	$\nu_d = \frac{n_d - 1}{n_F - n_C} = 57$	
n	1.535	1.528	1.524		1.519	1.515	1.513			1.510					

Color Specifications					
	x	y	Y	λ _d	P _e
A	.353	.368	22.3	488	24
C	.231	.226	24.7	475	39
D ₆₅	.234	.239	24.7	476	38

Properties									
Chemica		Thermal				Mechanical		Other	
D _w	D _A	T _w	T _e	α ₃₀₋₇₀	α ₁₀₀₋₃₀₀	H _k	F _A	S	
1	1	480	535	95	107	520	130	2.57	

Tolerances of Transmittance (T)	
B-R Conversion Value	Filter Factor
V (mired)	P
- 145 ± 7	1.5



UQG OPTICS MAKES EVERY EFFORT TO VERIFY 3RD PARTY TECHNICAL DATA BUT ACCEPTS NO RESPONSIBILITY FOR ACCURACY