

# IUV-355

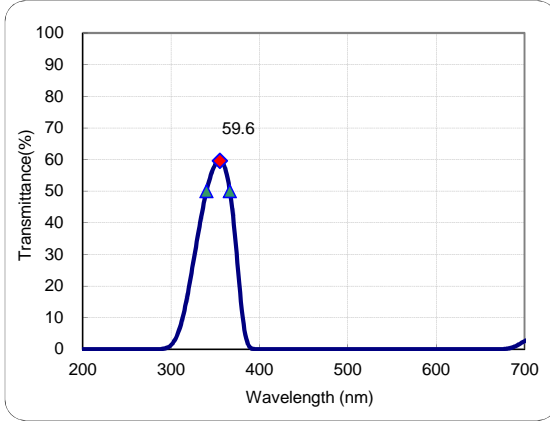
## UV transmitting, Visible absorbing filter

\*You can not use Macro security setting yet. Please refer to "MACRO SETTING" to use this page.

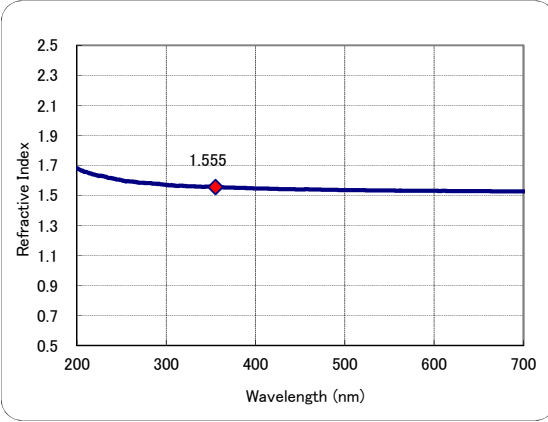
- All data are mean values of various melts.
- Change thickness and condition to check variations of data.→

Condition	Thickness	3mm
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### ● Transmittance



### ● Refractive index



### <Meaning of sign>

- $\lambda$  (nm) :Wavelength
- T (%) :External Transmittance
- $\tau$  :Internal Transmittance
- OD :Optical Density
- $n_m$  :Refractive Index
- $k_m$  :Extinction Coefficient

- ◆ < Set wavelength >
- ▲ <Transmittance50%>
- ▲ <Transmittance50%>
- d-line(587.56nm)
- e-line(546.07nm)

$\lambda$ (nm)	T(%)	$\tau$	OD	$n_m$	$k_m$
355	59.6	0.656	0.22	1.555	3.976E-06
366.5	50.0	0.550	0.30	1.552	5.815E-06
340.0	50.0	0.551	0.30	1.557	5.380E-06
587.56	1.9E-03	2.1E-05	4.72	1.531	1.681E-04
546.07	1.6E-03	1.8E-05	4.79	1.532	1.583E-04

$\lambda$ (nm)	T(%)	$\tau$	OD	$n_m$	$k_m$
200	1.2E-02	1.3E-04	3.93	1.680	4.727E-05
210	7.6E-03	8.6E-05	4.12	1.656	5.212E-05
220	5.0E-03	5.7E-05	4.30	1.638	5.707E-05
230	4.8E-03	5.4E-05	4.32	1.626	5.996E-05
240	4.4E-03	4.9E-05	4.36	1.613	6.317E-05
250	3.5E-03	3.9E-05	4.46	1.601	6.738E-05
260	3.1E-03	3.4E-05	4.51	1.593	7.089E-05
270	2.6E-03	2.9E-05	4.59	1.584	7.490E-05
280	4.6E-03	5.1E-05	4.34	1.581	7.341E-05
290	0.1	0.001	3.02	1.577	5.261E-05
300	1.3	0.014	1.88	1.570	3.370E-05
310	6.9	0.076	1.16	1.565	2.115E-05
320	19.3	0.213	0.71	1.563	1.313E-05
330	35.6	0.393	0.45	1.560	8.176E-06
340	50.0	0.551	0.30	1.557	5.375E-06
350	58.4	0.643	0.23	1.557	4.098E-06
360	58.1	0.639	0.24	1.553	4.282E-06
370	42.1	0.463	0.38	1.552	7.559E-06
380	12.4	0.136	0.91	1.550	2.008E-05
390	0.4	0.005	2.39	1.549	5.589E-05
400	5.E-03	5.3E-05	4.31	1.546	1.044E-04
410	3.E-03	3.6E-05	4.49	1.545	1.114E-04
420	3.E-03	2.9E-05	4.57	1.543	1.163E-04
430	2.E-03	2.7E-05	4.61	1.542	1.200E-04
440	2.E-03	2.5E-05	4.64	1.542	1.236E-04
450	2.E-03	2.0E-05	4.74	1.540	1.293E-04
460	2.1E-03	2.3E-05	4.69	1.540	1.305E-04
470	2.5E-03	2.7E-05	4.61	1.539	1.311E-04
480	2.9E-03	3.2E-05	4.54	1.538	1.318E-04
490	2.6E-03	2.8E-05	4.59	1.536	1.361E-04
500	2.1E-03	2.3E-05	4.67	1.536	1.414E-04
510	2.1E-03	2.3E-05	4.68	1.535	1.446E-04
520	2.1E-03	2.3E-05	4.68	1.534	1.474E-04
530	1.7E-03	1.9E-05	4.77	1.533	1.530E-04
540	2.0E-03	2.2E-05	4.69	1.533	1.535E-04

$\lambda$ (nm)	T(%)	$\tau$	OD	$n_m$	$k_m$
550	1.7E-03	1.9E-05	4.77	1.532	1.588E-04
560	1.9E-03	2.1E-05	4.72	1.532	1.600E-04
570	1.6E-03	1.7E-05	4.80	1.532	1.657E-04
580	1.9E-03	2.1E-05	4.71	1.531	1.656E-04
590	1.6E-03	1.7E-05	4.81	1.531	1.718E-04
600	2.4E-03	2.6E-05	4.62	1.530	1.679E-04
610	3.0E-03	3.3E-05	4.52	1.530	1.671E-04
620	3.2E-03	3.5E-05	4.50	1.530	1.689E-04
630	3.8E-03	4.2E-05	4.42	1.529	1.686E-04
640	3.8E-03	4.2E-05	4.42	1.529	1.713E-04
650	4.3E-03	4.7E-05	4.37	1.529	1.718E-04
660	7.5E-03	8.3E-05	4.12	1.529	1.646E-04
670	1.1E-02	1.2E-04	3.95	1.527	1.600E-04
680	0.1	0.002	2.84	1.526	1.162E-04
690	1.0	0.011	2.01	1.526	8.308E-05
700	2.5	0.028	1.60	1.527	6.671E-05
750	1.2	1.3E-02	1.93	1.526	8.687E-05
800	5.5E-02	6.0E-04	3.26	1.525	1.574E-04
900	7.7E-03	8.4E-05	4.11	1.520	2.241E-04
1000	5.5E-02	6.0E-04	3.26	1.522	1.968E-04
1100	0.1	1.5E-03	2.86	1.521	1.893E-04
1200	2.7E-02	2.9E-04	3.57	1.518	2.591E-04
1300	5.2E-03	5.6E-05	4.29	1.517	3.374E-04
1400	2.4E-02	2.6E-04	3.62	1.515	3.062E-04
1500	2.9E-02	3.1E-04	3.54	1.513	3.214E-04
1600	3.7E-03	4.0E-05	4.43	1.512	4.294E-04
1700	1.1E-02	1.2E-04	3.97	1.510	4.088E-04
1800	5.1E-03	5.5E-05	4.29	1.510	4.681E-04
1900	9.3E-03	1.0E-04	4.03	1.508	4.636E-04
2000	1.7E-02	1.9E-04	3.76	1.505	4.553E-04

Spectrophotometer used HITACHI U-4100.

Date29/03/13

