近赤外吸収（色補正）フィルター　近红外吸收（色彩校正）滤光片
Near infrared absorption (Color Compensating) Filter

HOYA
OPTICS DIVISION

CU700

Standard Thickness
t= 0.60

:

λ (nm)	n	T(%)	τ (%)	A	K (×10⁻⁴)
		0.60	0.60		
2500	1.51450				
2400	1.51582				
2300	1.51709				
2200	1.51832				
2100	1.51950				
2000	1.52065				
1900	1.52176				
1800	1.52284				
1700	1.52389				
1600	1.52492				
1550	1.52543				
1500	1.52594				
1450	1.52645				
1400	1.52695				
1350	1.52747				
1300	1.52798				
1250	1.52851				
1200	1.52905	11.85	12.96	1.48	3.25
1180	1.52927	10.20	11.15	1.65	3.43
1160	1.52949	8.74	9.55	1.76	3.61
1140	1.52971	7.43	8.12	1.88	3.80
1120	1.52994	6.25	6.83	2.01	3.99
1100	1.53018	5.28	5.77	2.13	4.16
1080	1.53042	4.41	4.82	2.26	4.34
1060	1.53066	3.64	3.98	2.40	4.53
1040	1.53091	3.00	3.28	2.54	4.71
1020	1.53117	2.46	2.69	2.68	4.89
1000	1.53143	1.96	2.14	2.85	5.10
990	1.53156	1.80	1.97	2.91	5.16
980	1.53170	1.62	1.78	2.98	5.24
970	1.53184	1.44	1.58	3.07	5.34
960	1.53198	1.31	1.44	3.14	5.40
950	1.53212	1.19	1.30	3.21	5.47
940	1.53227	1.08	1.18	3.28	5.53
930	1.53242	1.00	1.09	3.33	5.57
920	1.53257	0.91	0.99	3.41	5.63
910	1.53272	0.82	0.90	3.48	5.69
900	1.53288	0.77	0.84	3.52	5.70
890	1.53304	0.72	0.79	3.57	5.72
880	1.53320	0.66	0.72	3.63	5.75
870	1.53337	0.62	0.68	3.67	5.75
860	1.53354	0.59	0.64	3.72	5.75
850	1.53372	0.57	0.62	3.74	5.72
840	1.53390	0.57	0.62	3.74	5.66
830	1.53408	0.60	0.66	3.70	5.53
820	1.53427	0.64	0.70	3.66	5.39
810	1.53446	0.69	0.76	3.60	5.25
800	1.53466	0.75	0.82	3.54	5.10
790	1.53486	0.83	0.91	3.47	4.92
780	1.53507	0.97	1.06	3.35	4.70
770	1.53529	1.16	1.27	3.23	4.46
760	1.53551	1.42	1.55	3.08	4.20
750	1.53574	1.77	1.94	2.92	3.92
740	1.53598	2.26	2.48	2.74	3.63
730	1.53622	2.91	3.19	2.56	3.33
720	1.53648	3.82	4.18	2.36	3.03
710	1.53674	5.05	5.53	2.16	2.73
700	1.53701	6.67	7.30	1.96	2.43

λ (nm)	n	T(%)	τ (%)	A	K (×10⁻⁴)
		0.60	0.60		
690	1.53729	8.85	9.70	1.76	2.14
680	1.53758	11.65	12.77	1.56	1.86
670	1.53788	15.23	16.69	1.36	1.59
660	1.53819	19.60	21.49	1.18	1.35
650	1.53852	24.84	27.24	1.01	1.12
640	1.53886	30.89	33.86	0.85	0.92
630	1.53921	37.60	41.22	0.71	0.74
620	1.53958	44.77	49.08	0.58	0.59
610	1.53997	52.05	57.06	0.47	0.45
600	1.54037	59.22	64.91	0.38	0.34
590	1.54080	65.97	72.30	0.30	0.25
580	1.54124	71.89	78.79	0.24	0.18
570	1.54170	76.96	84.34	0.19	0.13
560	1.54219	81.08	88.85	0.15	0.09
550	1.54271	84.18	92.24	0.12	0.06
540	1.54325	86.47	94.76	0.11	0.04
530	1.54383	88.04	96.49	0.09	0.03
520	1.54443	89.07	97.62	0.08	0.02
510	1.54507	89.54	98.16	0.08	0.01
500	1.54575	89.91	98.57	0.08	0.01
490	1.54648	89.87	98.55	0.08	0.01
480	1.54725	89.89	98.60	0.08	0.01
470	1.54807	89.73	98.44	0.08	0.01
460	1.54895	89.58	98.30	0.08	0.01
450	1.54989	89.40	98.12	0.08	0.01
440	1.55089	89.13	97.86	0.08	0.01
430	1.55198	88.85	97.58	0.09	0.01
420	1.55315	88.53	97.27	0.09	0.02
410	1.55441	88.19	96.92	0.09	0.02
400	1.55579	87.59	96.30	0.10	0.02
390	1.55728	86.90	95.58	0.10	0.02
380	1.55890	85.34	93.91	0.11	0.03
370	1.56068	82.64	91.00	0.14	0.05
360	1.56263	76.68	84.50	0.19	0.08
350	1.56478	64.86	71.55	0.31	0.16
340	1.56715	43.77	48.35	0.60	0.33
330	1.56977	17.28	19.11	1.27	0.72
320	1.57269	2.00	2.21	2.83	1.62
310	1.57595				
300	1.57958				

Specific Gravity	
d	3.06

Chemical Properties	
D_W	1
D_A	5
T_{Blue}	
D_{NaOH}	
D_{STPP}	
D_O	
D_H	

Thermal Properties	
T_g (℃)	414
T_s (℃)	454
$T_{10^{14.5}}$ (℃)	
$T_{10^{13}}$ (℃)	
$T_{10^{7.6}}$ (℃)	
$\alpha_{-30/+70℃}$ (10^{-7}/℃)	125
$\alpha_{100/300℃}$ (10^{-7}/℃)	146
λ [W/(m·K)]	
C_P[kJ/(kg·K)]	

Mechanical Properties	
H_K	340
F_A	490
E (GPa)	
G (GPa)	
μ	
σ_b (MPa)	

Constants of dispersion formula			
A_0	2.3403402	E	0
A_1	-7.7897068	E	-3
A_2	1.2843136	E	-2
A_3	-1.5180004	E	-4
A_4	3.6373859	E	-5
A_5	-1.2092365	E	-6

Refractive Index & νd		
nC	656.273	1.53831
nd	588.562	1.5409
nF	486.133	1.54677
νd		63.94

Chromaticity coordinates		
	T	τ
x	0.266	0.266
y	0.322	0.322

Transmittance ratio		
	T	τ
700nm/500nm	0.074	0.074
600nm/500nm	0.659	0.658
400nm/500nm	0.974	0.977

Remarks	

Date:	2025.11.10

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