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

CD700

Standard Thickness	T50% : 613±4	T400 ≧83	T500 ≧87	T600 ≧57	T700 ≦9
t= 0.45					T1200 ≦16

λ (nm)	n	T(%)	τ (%)	A	K (×10⁻⁴)
		0.45	0.45		
2500	1.51590				
2400	1.51702				
2300	1.51811				
2200	1.51916				
2100	1.52018				
2000	1.52117				
1900	1.52213				
1800	1.52307				
1700	1.52400				
1600	1.52491				
1550	1.52537				
1500	1.52582				
1450	1.52628				
1400	1.52675				
1350	1.52722				
1300	1.52769				
1250	1.52819				
1200	1.52870	11.82	12.93	1.97	4.34
1180	1.52891	10.40	11.37	2.10	4.54
1160	1.52912	8.94	9.78	2.24	4.77
1140	1.52934	7.63	8.34	2.40	5.01
1120	1.52956	6.47	7.08	2.56	5.25
1100	1.52978	5.47	5.98	2.72	5.48
1080	1.53002	4.60	5.03	2.89	5.71
1060	1.53025	3.83	4.19	3.06	5.95
1040	1.53050	3.17	3.47	3.24	6.18
1020	1.53075	2.62	2.86	3.43	6.41
1000	1.53101	2.15	2.35	3.62	6.63
990	1.53114	1.94	2.12	3.72	6.74
980	1.53128	1.76	1.92	3.81	6.85
970	1.53141	1.59	1.74	3.91	6.95
960	1.53155	1.45	1.58	4.00	7.04
950	1.53170	1.32	1.44	4.09	7.12
940	1.53184	1.20	1.31	4.18	7.20
930	1.53199	1.10	1.20	4.27	7.27
920	1.53214	1.01	1.10	4.35	7.33
910	1.53230	0.93	1.02	4.43	7.39
900	1.53245	0.86	0.94	4.50	7.43
890	1.53262	0.81	0.88	4.57	7.44
880	1.53278	0.77	0.84	4.61	7.44
870	1.53295	0.74	0.81	4.65	7.41
860	1.53312	0.72	0.79	4.67	7.37
850	1.53330	0.72	0.78	4.68	7.29
840	1.53348	0.72	0.79	4.68	7.20
830	1.53367	0.72	0.79	4.67	7.11
820	1.53386	0.76	0.83	4.62	6.94
810	1.53405	0.80	0.88	4.57	6.78
800	1.53426	0.89	0.97	4.47	6.56
790	1.53446	1.00	1.10	4.35	6.30
780	1.53468	1.16	1.27	4.22	6.03
770	1.53490	1.35	1.48	4.07	5.74
760	1.53512	1.64	1.80	3.88	5.40
750	1.53536	2.03	2.22	3.67	5.05
740	1.53560	2.55	2.79	3.45	4.68
730	1.53585	3.26	3.57	3.22	4.30
720	1.53611	4.25	4.65	2.96	3.91
710	1.53637	5.58	6.11	2.70	3.51
700	1.53665	7.27	7.96	2.44	3.13

λ (nm)	n	T(%)	τ (%)	A	K (×10⁻⁴)
		0.45	0.45		
690	1.53694	9.50	10.42	2.18	2.76
680	1.53723	12.45	13.65	1.92	2.40
670	1.53754	16.18	17.74	1.67	2.05
660	1.53787	20.18	22.12	1.46	1.76
650	1.53820	25.64	28.11	1.22	1.46
640	1.53855	31.59	34.63	1.02	1.20
630	1.53891	38.27	41.95	0.84	0.97
620	1.53929	45.39	49.75	0.67	0.77
610	1.53968	52.41	57.44	0.54	0.60
600	1.54010	59.44	65.14	0.41	0.45
590	1.54053	66.00	72.33	0.31	0.34
580	1.54099	71.93	78.82	0.23	0.24
570	1.54146	76.95	84.32	0.16	0.17
560	1.54196	81.02	88.77	0.11	0.12
550	1.54249	84.08	92.13	0.08	0.08
540	1.54305	86.35	94.62	0.05	0.05
530	1.54363	87.94	96.37	0.04	0.03
520	1.54425	88.96	97.50	0.02	0.02
510	1.54491	89.58	98.19	0.02	0.02
500	1.54561	89.79	98.44	0.02	0.01
490	1.54635	89.97	98.66	0.01	0.01
480	1.54714	89.96	98.67	0.01	0.01
470	1.54798	89.89	98.61	0.01	0.01
460	1.54888	89.80	98.54	0.01	0.01
450	1.54985	89.62	98.37	0.02	0.01
440	1.55089	89.36	98.11	0.02	0.01
430	1.55200	89.17	97.93	0.02	0.02
420	1.55320	88.88	97.64	0.02	0.02
410	1.55451	88.56	97.33	0.03	0.02
400	1.55592	88.08	96.84	0.03	0.02
390	1.55745	87.47	96.21	0.04	0.03
380	1.55913	86.06	94.71	0.05	0.04
370	1.56096	83.60	92.06	0.08	0.05
360	1.56295	78.01	85.97	0.15	0.10
350	1.56515	66.71	73.60	0.30	0.19
340	1.56755	46.07	50.89	0.65	0.41
330	1.57019	19.41	21.47	1.48	0.90
320	1.57308	3.18	3.52	3.23	1.89
310	1.57623	0.12	0.13	6.40	3.64
300	1.57964	0.01	0.01	9.13	5.02

Specific Gravity	
d	3.07

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

Thermal Properties	
T_g (℃)	409
T_s (℃)	452
$T_{10^{14.5}}$ (℃)	
$T_{10^{13}}$ (℃)	
$T_{10^{7.6}}$ (℃)	
$\alpha_{-30/+70℃}$ (10^{-7}/℃)	
$\alpha_{100/300℃}$ (10^{-7}/℃)	146
λ [W/(m·K)]	
C_P[kJ/(kg·K)]	

Mechanical Properties	
H_K	370
F_A	530
E (GPa)	73
G (GPa)	29
μ	0.27
σ_b (MPa)	

Constants of dispersion formula			
A_0	2.3365106	E	0
A_1	-6.5346487	E	-3
A_2	1.4448851	E	-2
A_3	-5.1967897	E	-4
A_4	8.5325197	E	-5
A_5	-3.5493059	E	-6

Refractive Index & νd		
nC	656.273	1.53799
nd	588.562	1.54064
nF	486.133	1.54665
νd		62.43

Chromaticity coordinates		
	T	τ
x	0.266	0.266
y	0.322	0.322

Transmittance ratio		
	T	τ
700nm/500nm	0.081	0.081
600nm/500nm	0.662	0.662
400nm/500nm	0.981	0.984

Remarks	

Date:	2025.11.10

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