

DATA SHEET

HOYA CD700

近赤外吸収（色補正）フィルター 近赤外吸収（色彩校正）濾光片
Near infrared absorption (Color Compensating) Filter**HOYA**
OPTICS DIVISION

CD700

Standard
Thickness

t= 0.45

T50% : 613±4

T400 ≥83

T500 ≥87

T600 ≥57

T700 ≤9

T1200 ≤16

λ (nm)	n	T (%) 0.45	τ (%) 0.45	A	K (×10 ⁻⁴)	λ (nm)	n	T (%) 0.45	τ (%) 0.45	A	K (×10 ⁻⁴)
2500	1.51590					690	1.53694	9.50	10.42	2.18	2.76
2400	1.51702					680	1.53723	12.45	13.65	1.92	2.40
2300	1.51811					670	1.53754	16.18	17.74	1.67	2.05
2200	1.51916					660	1.53787	20.18	22.12	1.46	1.76
2100	1.52018					650	1.53820	25.64	28.11	1.22	1.46
2000	1.52117					640	1.53855	31.59	34.63	1.02	1.20
1900	1.52213					630	1.53891	38.27	41.95	0.84	0.97
1800	1.52307					620	1.53929	45.39	49.75	0.67	0.77
1700	1.52400					610	1.53968	52.41	57.44	0.54	0.60
1600	1.52491					600	1.54010	59.44	65.14	0.41	0.45
1550	1.52537					590	1.54053	66.00	72.33	0.31	0.34
1500	1.52582					580	1.54099	71.93	78.82	0.23	0.24
1450	1.52628					570	1.54146	76.95	84.32	0.16	0.17
1400	1.52675					560	1.54196	81.02	88.77	0.11	0.12
1350	1.52722					550	1.54249	84.08	92.13	0.08	0.08
1300	1.52769					540	1.54305	86.35	94.62	0.05	0.05
1250	1.52819					530	1.54363	87.94	96.37	0.04	0.03
1200	1.52870	11.82	12.93	1.97	4.34	520	1.54425	88.96	97.50	0.02	0.02
1180	1.52891	10.40	11.37	2.10	4.54	510	1.54491	89.58	98.19	0.02	0.02
1160	1.52912	8.94	9.78	2.24	4.77	500	1.54561	89.79	98.44	0.02	0.01
1140	1.52934	7.63	8.34	2.40	5.01	490	1.54635	89.97	98.66	0.01	0.01
1120	1.52956	6.47	7.08	2.56	5.25	480	1.54714	89.96	98.67	0.01	0.01
1100	1.52978	5.47	5.98	2.72	5.48	470	1.54798	89.89	98.61	0.01	0.01
1080	1.53002	4.60	5.03	2.89	5.71	460	1.54888	89.80	98.54	0.01	0.01
1060	1.53025	3.83	4.19	3.06	5.95	450	1.54985	89.62	98.37	0.02	0.01
1040	1.53050	3.17	3.47	3.24	6.18	440	1.55089	89.36	98.11	0.02	0.01
1020	1.53075	2.62	2.86	3.43	6.41	430	1.55200	89.17	97.93	0.02	0.02
1000	1.53101	2.15	2.35	3.62	6.63	420	1.55320	88.88	97.64	0.02	0.02
990	1.53114	1.94	2.12	3.72	6.74	410	1.55451	88.56	97.33	0.03	0.02
980	1.53128	1.76	1.92	3.81	6.85	400	1.55592	88.08	96.84	0.03	0.02
970	1.53141	1.59	1.74	3.91	6.95	390	1.55745	87.47	96.21	0.04	0.03
960	1.53155	1.45	1.58	4.00	7.04	380	1.55913	86.06	94.71	0.05	0.04
950	1.53170	1.32	1.44	4.09	7.12	370	1.56096	83.60	92.06	0.08	0.05
940	1.53184	1.20	1.31	4.18	7.20	360	1.56295	78.01	85.97	0.15	0.10
930	1.53199	1.10	1.20	4.27	7.27	350	1.56515	66.71	73.60	0.30	0.19
920	1.53214	1.01	1.10	4.35	7.33	340	1.56755	46.07	50.89	0.65	0.41
910	1.53230	0.93	1.02	4.43	7.39	330	1.57019	19.41	21.47	1.48	0.90
900	1.53245	0.86	0.94	4.50	7.43	320	1.57308	3.18	3.52	3.23	1.89
890	1.53262	0.81	0.88	4.57	7.44	310	1.57623	0.12	0.13	6.40	3.64
880	1.53278	0.77	0.84	4.61	7.44	300	1.57964	0.01	0.01	9.13	5.02
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						

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 (°C)	409
T _g (°C)	452
T _{1014.5} (°C)	
T ₁₀₁₃ (°C)	
T _{107.6} (°C)	
α _{-30/+70°C} (10 ⁻⁷ /°C)	
α _{100/300°C} (10 ⁻⁷ /°C)	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		
n _C	656.273	1.53799
nd	588.562	1.54064
n _F	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

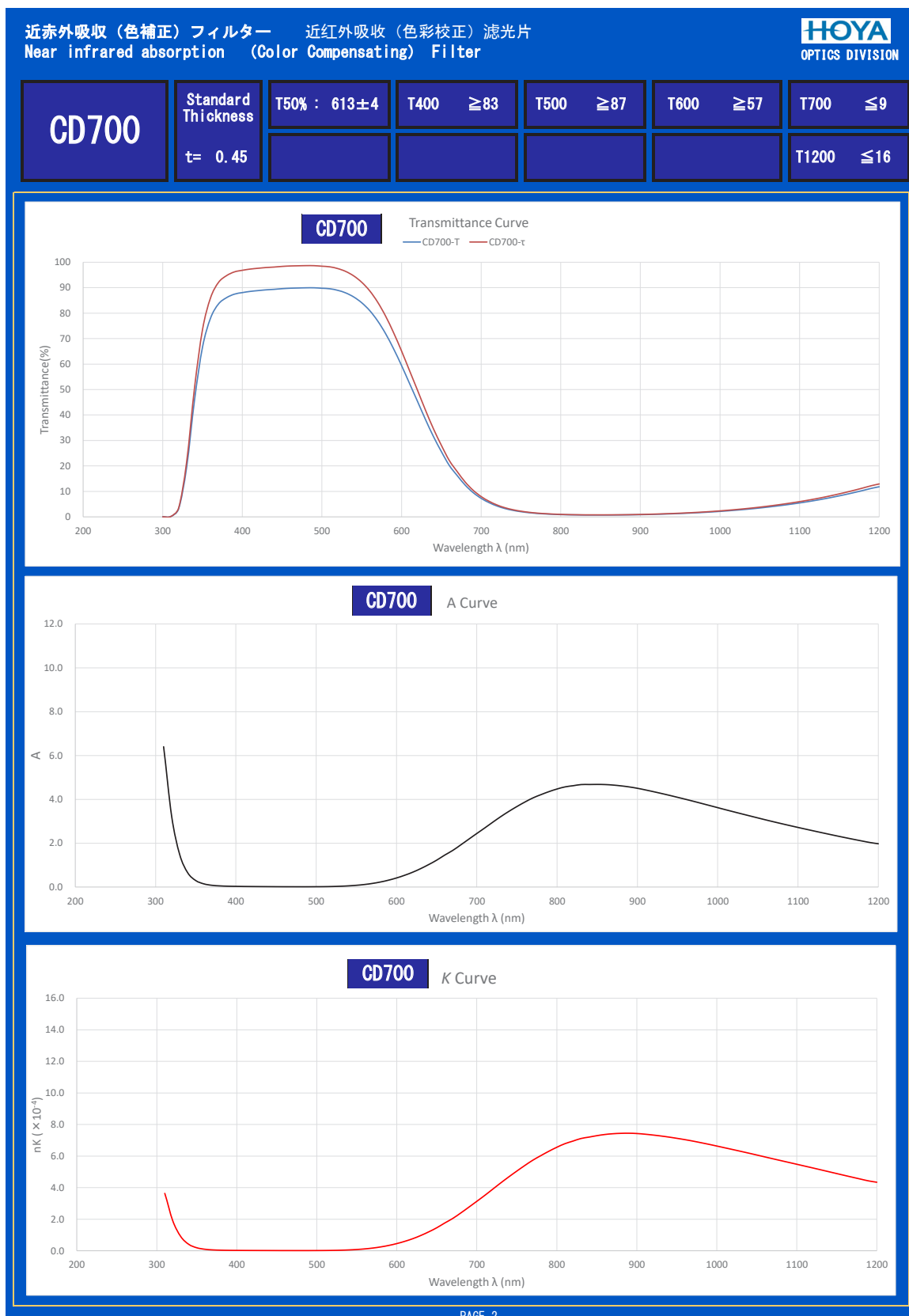
Remarks	

Date:	2025.11.10

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