

CXD700

Standard Thickness

t= 0.23

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λ (nm)	n	T (%)	τ (%)	A	K ($\times 10^{-4}$)
		0.23	0.23		
2500	1.51273				
2400	1.51402				
2300	1.51526				
2200	1.51646				
2100	1.51763				
2000	1.51877				
1900	1.51987				
1800	1.52095				
1700	1.52201				
1600	1.52305				
1550	1.52357				
1500	1.52410				
1450	1.52462				
1400	1.52515				
1350	1.52569				
1300	1.52623				
1250	1.52679				
1200	1.52737	12.62	13.80	3.74	8.22
1180	1.52761	11.13	12.17	3.98	8.60
1160	1.52785	9.61	10.51	4.25	9.04
1140	1.52810	8.24	9.01	4.54	9.49
1120	1.52835	7.04	7.69	4.84	9.94
1100	1.52861	5.97	6.53	5.15	10.39
1080	1.52887	5.03	5.50	5.47	10.83
1060	1.52914	4.23	4.63	5.80	11.27
1040	1.52941	3.52	3.85	6.15	11.72
1020	1.52970	2.94	3.21	6.49	12.13
1000	1.52999	2.44	2.67	6.84	12.54
990	1.53014	2.22	2.42	7.02	12.74
980	1.53029	2.02	2.21	7.20	12.93
970	1.53045	1.84	2.01	7.38	13.11
960	1.53060	1.68	1.84	7.55	13.28
950	1.53076	1.54	1.68	7.72	13.43
940	1.53093	1.40	1.53	7.89	13.59
930	1.53109	1.29	1.41	8.05	13.72
920	1.53126	1.19	1.30	8.20	13.82
910	1.53144	1.10	1.21	8.34	13.90
900	1.53161	1.03	1.12	8.48	13.98
890	1.53179	0.97	1.06	8.58	13.99
880	1.53198	0.92	1.01	8.68	14.00
870	1.53216	0.88	0.96	8.77	13.97
860	1.53236	0.86	0.94	8.80	13.87
850	1.53255	0.85	0.93	8.83	13.76
840	1.53276	0.87	0.95	8.80	13.54
830	1.53296	0.88	0.96	8.77	13.33
820	1.53318	0.92	1.01	8.68	13.05
810	1.53339	0.98	1.07	8.57	12.72
800	1.53362	1.07	1.17	8.39	12.30
790	1.53385	1.20	1.31	8.18	11.84
780	1.53408	1.37	1.50	7.93	11.34
770	1.53433	1.61	1.76	7.63	10.77
760	1.53458	1.93	2.12	7.28	10.14
750	1.53483	2.38	2.61	6.88	9.46
740	1.53510	2.97	3.26	6.47	8.77
730	1.53537	3.76	4.12	6.02	8.05
720	1.53566	4.83	5.29	5.55	7.32
710	1.53595	6.25	6.85	5.06	6.59
700	1.53625	8.13	8.91	4.57	5.86

[illegible]

Specific Gravity	
d	3.07

Chemical Properties	
D_W	1
D_A	5
T_{Blue}	
D_{NaOH}	
D_{STPP}	
D_0	
D_H	

Thermal Properties	
$T_g (^{\circ}\text{C})$	392
$T_s (^{\circ}\text{C})$	434
$T_{10^{14.5}} (^{\circ}\text{C})$	
$T_{10^{13}} (^{\circ}\text{C})$	
$T_{10^{7.6}} (^{\circ}\text{C})$	
$\alpha_{-30/+70^{\circ}\text{C}} (10^{-7}/^{\circ}\text{C})$	123
$\alpha_{100/300^{\circ}\text{C}} (10^{-7}/^{\circ}\text{C})$	150
$\lambda \text{ [W/(m}\cdot\text{K)]}$	
$C_p \text{ [kJ/(kg}\cdot\text{K)]}$	

Mechanical Properties	
H_K	345
F_A	580
E (GPa)	71
G (GPa)	28
μ	0.26
σ_b (MPa)	

Constants of dispersion formula			
A_0	2.3324427	E	0
A_1	-7.4776284	E	-3
A_2	1.6693151	E	-2
A_3	-9.2253898	E	-4
A_4	1.3791916	E	-4
A_5	-5.6092234	E	-6

Refractive Index & ν d		
nC	656. 273	1. 53772
nd	588. 562	1. 54059
nF	486. 133	1. 54708
ν d		57. 76

Chromaticity coordinates		
	T	τ
x	0.269	0.269
y	0.324	0.323

Transmittance ratio		
	T	τ
700nm/500nm	0.091	0.091
600nm/500nm	0.681	0.681
400nm/500nm	0.964	0.967

Remarks	

Date:	2025. 11. 14

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