H-LaF4	750350	n_d = 1.74950	υ_d = 35.04	$n_F - n_C$ = 0.021390
		n_e = 1.75456	υ_e = 34.77	$n_{F'} - n_{C'}$ = 0.021700

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.70492
n_{1970}	1970.09	1.71111
n_{1530}	1529.58	1.71821
n_{1129}	1128.64	1.72529
n_{1064}	1064.00	1.72671
n_t	1013.98	1.72791
n_s	852.11	1.73282
$n_{A'}$	768.19	1.73638
n_r	706.52	1.73976
n_C	656.27	1.74324
$n_{C'}$	643.85	1.74422
n_{He-Ne}	632.80	1.74513
n_D	589.29	1.74931
n_d	587.56	1.74950
n_e	546.07	1.75456
n_F	486.13	1.76463
$n_{F'}$	479.99	1.76592
n_g	435.84	1.77718
n_h	404.66	1.78813
n_i	365.01	1.80817

Relative Partial Dispersion	
$P_{d,C}$	0.2927
$P_{e,d}$	0.2366
$P_{g,F}$	0.5867
$P'_{d,c'}$	0.2433
$P'_{e,d}$	0.2332
$P'_{g,F'}$	0.5189

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	-0.0001
$\triangle P_{g,F}$	0.0013
$\triangle P_{C,t}$	0.0068
$\triangle P_{C,s}$	0.0026

Thermal Properties	
Tg (℃)	597
Ts (℃)	643
$T_{10}^{14.5}$ (℃)	528
T_{10}^{13} (℃)	569
$\alpha_{-50/80℃}$ (10^{-7}/K)	78
$\alpha_{100/300℃}$ (10^{-7}/K)	95
λ (W/(m·K))	0.94

Mechanical Properties	
HK (10^7Pa)	514
F_A	173
E (GPa)	92.4
G (GPa)	36.4
μ	0.269
σ_b (MPa)	56
B (10^{-12}/Pa)	2.10

Chemical Properties (grade)	
RC (S)	1
RA (S)	1
D_W	1
D_A	2
R_{OH} (S)	1
RP (S)	2

Expansion Coefficient α ($\times 10^{-7}$/K)	
℃	α
-50/-40	71
-40/-30	73
-30/-20	75
-20/-10	76
-10/0	77
0/10	78
10/20	81
20/30	82
30/40	82
40/50	83
50/60	83
60/70	84
70/80	84
80/90	85
90/100	86
100/110	87
110/120	88
120/130	90
130/140	91
140/150	92
150/160	93

Internal Transmittance		
λ (nm)	τ5mm	τ10mm
2400	0.934	0.872
2200	0.978	0.956
2000	0.995	0.990
1800	0.999	0.998
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.998	0.996
800	0.998	0.996
750	0.998	0.996
700	0.998	0.996
650	0.998	0.996
600	0.998	0.996
550	0.998	0.996
500	0.998	0.996
480	0.993	0.986
460	0.990	0.980
440	0.982	0.964
420	0.970	0.941
400	0.924	0.854
390	0.888	0.789
380	0.819	0.671
370	0.707	0.500
360	0.506	0.256
350	0.202	0.041
340		
330		
320		
310		
300		
290		
280		

Constants of Dispersion Formula	
A_0	2.96835124E+00
A_1	-1.24121364E-02
A_2	2.96121393E-02
A_3	1.42472271E-03
A_4	-7.04844466E-05
A_5	9.47263949E-06

Density	
ρ (g/cm^3)	3.85

Solarization	
△λ (%)	-0.4

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative ($\times 10^{-6}$ / ℃)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60～-40	0.5	0.9	1.2	1.2	1.2	1.4	1.9	2.4	2.4	3.4
-40～-20	0.5	0.9	1.3	1.3	1.3	1.6	2.0	2.6	2.7	3.5
-20～0	0.4	0.9	1.2	1.2	1.3	1.6	2.0	2.7	2.8	3.7
0～20	0.4	0.9	1.3	1.3	1.4	1.7	2.1	2.8	2.9	3.8
20～40	0.6	1.0	1.3	1.4	1.4	1.9	2.2	3.0	3.1	4.1
40～60	0.6	1.1	1.4	1.5	1.6	1.9	2.1	3.2	3.3	4.2
60～80	0.7	1.3	1.6	1.6	1.7	2.0	2.4	3.3	3.4	4.5
80～100	0.7	1.4	1.8	1.8	1.9	2.1	2.4	3.6	3.7	4.7
100～120	0.9	1.6	1.9	1.9	2.0	2.4	2.6	3.7	3.8	4.8
120～140	1.0	1.7	2.1	2.1	2.2	2.5	2.9	3.9	3.9	5.1
140～160	1.2	1.8	2.2	2.3	2.4	2.8	3.0	4.0	4.1	5.2

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	415/350
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	389/350

Constants of dn/dt		
D_0	D_1	D_2
-2.48E-06	1.26E-08	-1.65E-11
E_0	E_1	λ_{TK}
7.19E-07	5.75E-10	2.71E-01