

H-LaF3C	744449	$n_d = 1.74400$	$v_d = 44.90$	$n_F - n_C = 0.016570$
		$n_e = 1.74794$	$v_e = 44.63$	$n_F - n_C = 0.016760$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	
n_{1970}	1970.09	
n_{1530}	1529.58	
n_{1129}	1128.64	1.72461
n_{1064}	1064.00	1.72577
n_t	1013.98	1.72675
n_s	852.11	1.73074
n_A	768.19	1.73361
n_F	706.52	1.73633
n_C	656.27	1.73906
$n_{C'}$	643.85	1.73984
n_{He-Ne}	632.80	1.74058
n_D	589.29	1.74386
n_d	587.56	1.74400
n_e	546.07	1.74794
n_F	486.13	1.75563
$n_{F'}$	479.99	1.75660
n_g	435.84	1.76496
n_h	404.66	1.77287
n_i	365.01	1.78671

Relative Partial Dispersion	
$P_{d,C}$	0.2981
$P_{e,d}$	0.2378
$P_{g,F}$	0.5631
$P'_{d,c'}$	0.2482
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.4988

Chemical Properties (grade)	
RC (S)	1
RA (S)	2
D _W	1
D _A	3
R _{OH} (S)	1
RP (S)	2
CR	1

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.910	0.828
2200	0.962	0.926
2000	0.982	0.965
1800	0.992	0.983
1600	0.998	0.995
1400	0.999	0.997
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	0.999	0.998
800	0.999	0.998
750	0.999	0.998
700	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.999	0.998
480	0.999	0.997
460	0.998	0.996
440	0.998	0.995
420	0.997	0.993
400	0.995	0.991
390	0.993	0.984
380	0.986	0.971
370	0.972	0.943
360	0.934	0.870
350	0.828	0.685
340	0.565	0.325
330	0.187	0.038
320		
310		
300		
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0013
$\Delta P_{g,F}$	-0.0060
$\Delta P_{C,t}$	-0.0148
$\Delta P_{C,s}$	-0.0060

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	78
-40/-30	81
-30/-20	84
-20/-10	86
-10/0	88
0/10	89
10/20	90
20/30	90
30/40	91
40/50	92
50/60	92
60/70	93
70/80	93
80/90	94
90/100	95
100/110	97
110/120	98
120/130	99
130/140	100
140/150	101
150/160	102

Thermal Properties	
T _g ($^{\circ}C$)	626
T _s ($^{\circ}C$)	676
T ₁₀ ^{14.5} ($^{\circ}C$)	553
T ₁₀ ¹³ ($^{\circ}C$)	598
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	73
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	91
λ (W/(m K))	0.70

Mechanical Properties	
HK ($10^7 Pa$)	502
F _A	195
E (GPa)	
G (GPa)	
μ	
σ_b (MPa)	
B ($10^{-12}/Pa$)	

Constants of Dispersion Formula	
A ₀	2.96730744E+00
A ₁	-1.01565086E-02
A ₂	2.47645800E-02
A ₃	7.87107350E-04
A ₄	-3.51755571E-05
A ₅	3.47733569E-06

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
4.34	-0.4

Range of Temperature ($^{\circ}C$)	Temperature Coefficients of Refractive Index									
	dn/dt relative ($\times 10^{-6} / ^{\circ}C$)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	0.5	0.8	0.9	1.1	1.2	1.4	1.6	1.8	2.0	2.5
-40 ~ -20	0.5	0.8	1.1	1.2	1.2	1.4	1.7	1.9	2.1	2.6
-20 ~ 0	0.5	0.8	1.1	1.2	1.3	1.4	1.8	2.0	2.1	2.8
0 ~ 20	0.6	1.0	1.1	1.2	1.3	1.6	1.8	2.0	2.2	2.9
20 ~ 40	0.6	1.1	1.2	1.3	1.4	1.6	1.9	2.1	2.2	3.1
40 ~ 60	0.6	1.2	1.2	1.3	1.4	1.7	1.9	2.1	2.3	3.2
60 ~ 80	0.7	1.3	1.3	1.4	1.6	1.9	2.0	2.2	2.4	3.4
80 ~ 100	0.7	1.3	1.4	1.5	1.8	2.0	2.0	2.3	2.5	3.4
100 ~ 120	0.7	1.4	1.6	1.7	1.9	2.1	2.3	2.4	2.5	3.6
120 ~ 140	0.7	1.5	1.6	1.8	2.1	2.2	2.3	2.5	2.6	3.8
140 ~ 160	0.8	1.5	1.6	1.8	2.1	2.3	2.5	2.6	2.6	3.9

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/335
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	355/331

Constants of dn/dt		
D ₀	D ₁	D ₂
-2.11E-06	1.25E-08	-2.36E-11
E ₀	E ₁	λ_{TK}
5.31E-07	3.26E-10	2.44E-01