H-LaF6LB 757477

n_d = 1.75700	υ_d = 47.71	$n_F - n_C$ = 0.015866
n_e = 1.76078	υ_e = 47.47	$n_{F'} - n_{C'}$ = 0.016028

Refractive Indices		
	λ(nm)	n_λ
n_{2325}	2325.42	1.71607
n_{1970}	1970.09	1.72303
n_{1530}	1529.58	1.73066
n_{1129}	1128.64	1.73755
n_t	1013.98	1.73988
n_s	852.11	1.74400
$n_{A'}$	768.19	1.74687
n_r	706.52	1.74954
n_C	656.27	1.75223
$n_{C'}$	643.85	1.75298
n_{He-Ne}	632.80	1.75369
n_D	589.29	1.75686
n_d	587.56	1.75700
n_e	546.07	1.76078
n_F	486.13	1.76809
$n_{F'}$	479.99	1.76901
n_g	435.84	1.77690
n_h	404.66	1.78428
n_i	365.01	1.79708

Constants of Dispersion Formula	
A_0	3.01960928E+00
A_1	-1.45733647E-02
A_2	2.20214983E-02
A_3	1.32033844E-03
A_4	-1.20721999E-04
A_5	7.31457542E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3008	$P'_{d,c'}$	0.2508
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2358
$P_{g,F}$	0.5555	$P'_{g,F'}$	0.4922

Chemical Properties (grade)	
RC(S)	1
RA(S)	3
D_W	1
D_A	3
R_{OH}(S)	1
RP(S)	2

Thermal Properties	
Tg(℃)	591
Ts(℃)	625
$T_{10}^{14.5}$(℃)	538
T_{10}^{13}(℃)	580
$\alpha_{-50/80℃}$(10^{-7}/K)	54
$\alpha_{100/300℃}$(10^{-7}/K)	70

Mechanical Properties	
HK(10^7Pa)	654
F_A	78
E(10^7Pa)	11709
G(10^7Pa)	4542
μ	0.289
B(nm/cm/10^5Pa)	1.760

Density	
ρ (g/cm^3)	4.25

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	-0.0030
$\triangle P_{g,F}$	-0.0089
$\triangle P_{C,t}$	0.0074
$\triangle P_{C,s}$	0.0040

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.839	0.704
2200	0.971	0.943
2000	0.996	0.992
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
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	0.997	0.994
420	0.994	0.989
400	0.991	0.981
390	0.988	0.974
380	0.982	0.961
370	0.972	0.939
360	0.956	0.895
350	0.928	0.841
340	0.881	0.758
330	0.802	0.627
320	0.652	0.412
310	0.361	0.125
300		
290		
280		

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative (10^{-6} / ℃)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	7.3	8.1	8.1	8.3	8.6	9.2	9.8
-20 ~ 0	7.3	8.1	8.1	8.3	8.6	9.2	9.9
0 ~ 20	7.4	8.1	8.2	8.4	8.7	9.4	10.0
20 ~ 40	7.4	8.2	8.2	8.5	8.8	9.4	10.1
40 ~ 60	7.5	8.3	8.4	8.6	8.9	9.6	10.3
60 ~ 80	7.7	8.5	8.6	8.8	9.1	9.9	10.6

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/305

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	345/306