

H-LaF2 717479	$n_d = 1.71700$	$\nu_d = 47.89$	$n_F - n_C = 0.014972$
	$n_e = 1.72056$	$\nu_e = 47.65$	$n_{F'} - n_{C'} = 0.015122$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.68162
n_{1970}	1970.09	1.68709
n_{1530}	1529.58	1.69323
n_{1129}	1128.64	1.69906
n_t	1013.98	1.70112
n_s	852.11	1.70486
$n_{A'}$	768.19	1.70752
n_r	706.52	1.70999
n_C	656.27	1.71250
$n_{C'}$	643.85	1.71321
$n_{\text{He-Ne}}$	632.80	1.71387
n_D	589.29	1.71685
n_d	587.56	1.71700
n_e	546.07	1.72056
n_F	486.13	1.72747
$n_{F'}$	479.99	1.72833
n_g	435.84	1.73583
n_h	404.66	1.74287
n_i	365.01	1.75517

Constants of Dispersion Formula	
A_0	2.88352222E+00
A_1	-1.10333797E-02
A_2	2.14058991E-02
A_3	9.16188540E-04
A_4	-7.10356524E-05
A_5	5.14524697E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3006	$P'_{d,C'}$	0.2507
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2354
$P_{g,F}$	0.5585	$P'_{g,F'}$	0.4960

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative ($10^{-6} / ^\circ\text{C}$)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	1.3	1.8	1.9	2.0	2.3	2.8	3.2
-20 ~ 0	1.2	1.8	1.8	2.0	2.2	2.7	3.3
0 ~ 20	1.2	1.8	1.8	2.0	2.2	2.7	3.3
20 ~ 40	1.1	1.7	1.8	2.0	2.2	2.7	3.3
40 ~ 60	1.2	1.8	1.8	2.0	2.3	2.8	3.4
60 ~ 80	1.3	1.9	2.0	2.2	2.4	3.0	3.6

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

Thermal Properties	
T _g (°C)	626
T _s (°C)	681
T ₁₀ ^{14.5} (°C)	577
T ₁₀ ¹³ (°C)	618
$\alpha_{-50/80^\circ\text{C}}$ ($10^{-7}/\text{K}$)	73
$\alpha_{100/300^\circ\text{C}}$ ($10^{-7}/\text{K}$)	87

Mechanical Properties	
HK(10^7Pa)	516
F _A	180
E(10^7Pa)	9005
G(10^7Pa)	3498
μ	0.287
B(nm/cm/ 10^5Pa)	

Density	
ρ (g/cm ³)	4.18

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0022
$\Delta P_{g,F}$	-0.0056
$\Delta P_{C,t}$	-0.0120
$\Delta P_{C,s}$	-0.0050

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400	0.904	0.817
2200	0.966	0.933
2000	0.990	0.980
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	0.998
460	0.999	0.998
440	0.999	0.998
420	0.998	0.996
400	0.996	0.992
390	0.993	0.987
380	0.985	0.975
370	0.967	0.949
360	0.940	0.895
350	0.881	0.787
340	0.746	0.566
330	0.465	0.221
320	0.115	0.017
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/320

Coloration of Internal Transmittance	
$\lambda\tau_{80}$	350
$\lambda\tau_5$	323