

H-LaF50 773496	$n_d = 1.77250$	$v_d = 49.60$	$n_F - n_C = 0.015575$
	$n_e = 1.77621$	$v_e = 49.36$	$n_{F'} - n_{C'} = 0.015725$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.73108
n_{1970}	1970.09	1.73821
n_{1530}	1529.58	1.74604
n_{1129}	1128.64	1.75310
n_t	1013.98	1.75547
n_s	852.11	1.75963
$n_{A'}$	768.19	1.76250
n_r	706.52	1.76514
n_C	656.27	1.76780
$n_{C'}$	643.85	1.76854
$n_{\text{He-Ne}}$	632.80	1.76924
n_D	589.29	1.77236
n_d	587.56	1.77250
n_e	546.07	1.77621
n_F	486.13	1.78337
$n_{F'}$	479.99	1.78427
n_g	435.84	1.79197
n_h	404.66	1.79916
n_i	365.01	1.81154

Constants of Dispersion Formula	
A_0	3.07395250E+00
A_1	-1.50954523E-02
A_2	2.31138211E-02
A_3	8.38501873E-04
A_4	-5.02227252E-05
A_5	3.23074191E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3019	$P'_{d,C'}$	0.2517
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2359
$P_{g,F}$	0.5523	$P'_{g,F'}$	0.4895

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative (10 ⁻⁶ / °C)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	4.0	4.5	4.6	4.7	5.0	5.5	5.9
-20 ~ 0	3.9	4.5	4.5	4.7	4.9	5.4	5.9
0 ~ 20	3.9	4.5	4.5	4.7	5.0	5.5	6.0
20 ~ 40	3.9	4.5	4.6	4.8	5.0	5.6	6.1
40 ~ 60	4.0	4.7	4.7	4.9	5.2	5.7	6.3
60 ~ 80	4.1	4.8	4.9	5.1	5.3	5.9	6.5

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

Thermal Properties	
T _g (°C)	672
T _s (°C)	706
T ₁₀ ^{14.5} (°C)	622
T ₁₀ ¹³ (°C)	668
$\alpha_{-50/80^\circ\text{C}}$ (10 ⁻⁷ /K)	59
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	73

Mechanical Properties	
HK(10 ⁷ Pa)	698
F _A	61
E(10 ⁷ Pa)	12190
G(10 ⁷ Pa)	4720
μ	0.291
B(nm/cm/10 ⁵ Pa)	1.450

Density	
ρ (g/cm ³)	4.27

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0030
$\Delta P_{g,F}$	-0.0089
$\Delta P_{C,t}$	0.0114
$\Delta P_{C,s}$	0.0053

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.853	0.728
2200	0.974	0.949
2000	0.999	0.998
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	0.999	0.998
400	0.996	0.992
390	0.992	0.984
380	0.986	0.972
370	0.977	0.955
360	0.960	0.922
350	0.932	0.869
340	0.886	0.785
330	0.815	0.564
320	0.695	0.380
310	0.481	0.160
300	0.173	0.017
290		
280		

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

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	351/305