

H-LaF72 720460	$n_d = 1.72000$	$\nu_d = 46.02$	$n_F - n_C = 0.015645$
	$n_e = 1.72372$	$\nu_e = 45.77$	$n_{F'} - n_{C'} = 0.015811$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.68194
n_{1970}	1970.09	1.68799
n_{1530}	1529.58	1.69476
n_{1129}	1128.64	1.70112
n_t	1013.98	1.70332
n_s	852.11	1.70730
$n_{A'}$	768.19	1.71011
n_r	706.52	1.71270
n_C	656.27	1.71533
$n_{C'}$	643.85	1.71607
$n_{\text{He-Ne}}$	632.80	1.71676
n_D	589.29	1.71986
n_d	587.56	1.72000
n_e	546.07	1.72372
n_F	486.13	1.73097
$n_{F'}$	479.99	1.73188
n_g	435.84	1.73982
n_h	404.66	1.74733
n_i	365.01	1.76051

Constants of Dispersion Formula	
A_0	2.89076193E+00
A_1	-1.22364030E-02
A_2	2.33487704E-02
A_3	4.32859274E-04
A_4	2.36515223E-05
A_5	1.99375550E-07

Relative Partial Dispersions			
$P_{d,C}$	0.2986	$P'_{d,C'}$	0.2486
$P_{e,d}$	0.2379	$P'_{e,d}$	0.2353
$P_{g,F}$	0.5659	$P'_{g,F'}$	0.5022

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	2.7	3.3	3.3	3.5	3.7	4.2	4.8
-20 ~ 0	2.7	3.3	3.4	3.6	3.8	4.4	4.9
0 ~ 20	2.7	3.3	3.4	3.6	3.9	4.5	5.0
20 ~ 40	2.7	3.3	3.4	3.6	3.8	4.4	5.1
40 ~ 60	2.7	3.4	3.4	3.6	3.9	4.5	5.2
60 ~ 80	2.8	3.5	3.6	3.8	4.1	4.7	5.4

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)	639
T _s (°C)	688
T ₁₀ ^{14.5} (°C)	584
T ₁₀ ¹³ (°C)	628
$\alpha_{-50/80^\circ\text{C}}$ (10 ⁻⁷ /K)	67
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	82

Mechanical Properties	
HK(10 ⁷ Pa)	585
F _A	128
E(10 ⁷ Pa)	9365
G(10 ⁷ Pa)	3627
μ	0.291
B(nm/cm/10 ⁵ Pa)	1.990

Density	
ρ (g/cm ³)	3.88

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0012
$\Delta P_{g,F}$	-0.0013
$\Delta P_{C,t}$	0.0048
$\Delta P_{C,s}$	0.0026

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400	0.902	0.806
2200	0.982	0.949
2000	0.993	0.986
1800	0.998	0.996
1600	0.998	0.996
1400	0.998	0.996
1200	0.998	0.996
1060	0.998	0.996
1000	0.998	0.996
900	0.998	0.996
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	0.997	0.994
460	0.995	0.992
440	0.993	0.987
420	0.988	0.982
400	0.978	0.964
390	0.967	0.946
380	0.948	0.910
370	0.908	0.839
360	0.826	0.698
350	0.638	0.423
340	0.303	0.098
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/340

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