

H-LaF62 720437	$n_d = 1.72000$	$\nu_d = 43.68$	$n_F - n_C = 0.016483$
	$n_e = 1.72391$	$\nu_e = 43.39$	$n_{F'} - n_{C'} = 0.016682$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.68074
n_{1970}	1970.09	1.68697
n_{1530}	1529.58	1.69391
n_{1129}	1128.64	1.70040
n_t	1013.98	1.70266
n_s	852.11	1.70676
$n_{A'}$	768.19	1.70965
n_r	706.52	1.71235
n_C	656.27	1.71511
$n_{C'}$	643.85	1.71588
$n_{\text{He-Ne}}$	632.80	1.71660
n_D	589.29	1.71985
n_d	587.56	1.72000
n_e	546.07	1.72391
n_F	486.13	1.73159
$n_{F'}$	479.99	1.73256
n_g	435.84	1.74094
n_h	404.66	1.74893
n_i	365.01	1.76316

Constants of Dispersion Formula	
A_0	2.88897190E+00
A_1	-1.26328327E-02
A_2	2.26898960E-02
A_3	1.15077142E-03
A_4	-8.54940157E-05
A_5	7.07758016E-06

Relative Partial Dispersions			
$P_{d,C}$	0.2967	$P'_{d,C'}$	0.2470
$P_{e,d}$	0.2373	$P'_{e,d}$	0.2344
$P_{g,F}$	0.5674	$P'_{g,F'}$	0.5024

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	2.5	3.1	3.1	3.3	3.6	4.1	4.8
-20 ~ 0	2.4	3.1	3.1	3.3	3.6	4.2	4.9
0 ~ 20	2.4	3.1	3.1	3.3	3.6	4.2	4.9
20 ~ 40	2.4	3.0	3.1	3.3	3.6	4.3	5.0
40 ~ 60	2.4	3.1	3.2	3.4	3.7	4.4	5.1
60 ~ 80	2.6	3.3	3.4	3.6	3.9	4.6	5.4

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

Thermal Properties	
$T_g(^\circ\text{C})$	587
$T_s(^\circ\text{C})$	642
$T_{10}^{14.5}(^\circ\text{C})$	530
$T_{10}^{13}(^\circ\text{C})$	581
$\alpha_{-50/80^\circ\text{C}}(10^{-7}/\text{K})$	71
$\alpha_{100/300^\circ\text{C}}(10^{-7}/\text{K})$	88

Mechanical Properties	
HK(10^7Pa)	564
F_A	149
$E(10^7\text{Pa})$	10012
$G(10^7\text{Pa})$	3869
μ	0.294
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	2.010

Density	
$\rho(\text{g}/\text{cm}^3)$	3.71

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0037
$\Delta P_{C,t}$	0.0037
$\Delta P_{C,s}$	0.0014

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.872	0.760
2200	0.954	0.910
2000	0.991	0.982
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	0.998	0.996
480	0.996	0.993
460	0.994	0.990
440	0.992	0.985
420	0.984	0.975
400	0.976	0.958
390	0.966	0.940
380	0.946	0.901
370	0.901	0.819
360	0.788	0.625
350	0.517	0.272
340	0.127	0.020
330		
320		
310		
300		
290		
280		

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

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