H-LaF54 800423

n_d = 1.79950	υ_d = 42.34	$n_F - n_C$ = 0.018883
n_e = 1.80399	υ_e = 42.09	$n_{F'} - n_{C'}$ = 0.019101

Refractive Indices		
	λ(nm)	
n_r	706.5	1.79073
n_C	656.3	1.79388
$n_{C'}$	643.8	1.79476
n_{He-Ne}	632.8	1.79559
n_D	589.3	1.79934
n_d	587.6	1.79950
n_e	546.1	1.80399
n_F	486.1	1.81276
$n_{F'}$	480.0	1.81386
n_g	435.8	1.82342
n_h	404.7	1.83248
n_i	365.0	1.84838

Chemical Properties (grade)	
RC(S)	1
RA(S)	3
D_W	1
D_A	4

Thermal Properties	
Tg(℃)	595
Ts(℃)	630
$T_{10}^{14.5}$(℃)	539
T_{10}^{13}(℃)	570
$\alpha_{20/120℃}$ (10^{-7}/K)	53
$\alpha_{20/300℃}$ (10^{-7}/K)	60
λ(W/m·K)	

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.830	0.689
2200	0.949	0.901
2000	0.980	0.960
1800	0.991	0.982
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
950	0.998	0.996
900	0.998	0.996
850	0.999	0.998
800	0.999	0.998
700	0.999	0.998
650	0.998	0.996
600	0.997	0.994
550	0.996	0.992
500	0.995	0.990
480	0.994	0.988
460	0.993	0.986
440	0.992	0.984
420	0.987	0.974
400	0.982	0.964
390	0.975	0.951
380	0.962	0.925
370	0.939	0.882
360	0.896	0.803
350	0.811	0.658
340	0.634	0.402
330	0.314	0.099
320	0.066	0.004
310		
300		
290		
280		

Constants of Dispersion Formula	
A_0	3.1513655
A_1	-1.3052015×10-2
A_2	2.9502111×10-2
A_3	6.7643437×10-4
A_4	3.6679701×10-6
A_5	1.8233293×10-6

Mechanical Properties	
H_K(10^7Pa)	630
F_A	
E(10^7Pa)	11534
G(10^7Pa)	4433
μ	0.301
B(10^{-12}/Pa)	2.28

Relative Partial Dispersion			
$P_{d,c}$	0.2977	$P'_{d,c'}$	0.2482
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2351
$P_{g,F}$	0.5646	$P'_{g,F'}$	0.5005

Anomalous dispersions	
$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0087

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative (10^{-6} / ℃)						
	t	C'	He-Ne	D	e	F'	g
-40～-20							
-20～0							
0～20							
20～40							
40～60							
60～80							

Density	
ρ(g/cm^3)	4.40

Coloration Code			
λ_{80}/λ_5	39/33	λ_{70}/λ_5	