

H-LaK54	734511	$n_d = 1.73400$	$v_d = 51.05$	$n_F - n_C = 0.014377$
		$n_e = 1.73742$	$v_e = 50.82$	$n_F - n_C = 0.014511$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.69388
n_{1970}	1970.09	1.70113
n_{1530}	1529.58	1.70899
n_{1129}	1128.64	1.71588
n_{1064}	1064.00	1.71711
n_t	1013.98	1.71813
n_s	852.11	1.72204
$n_{A'}$	768.19	1.72471
n_f	706.52	1.72718
n_C	656.27	1.72965
$n_{C'}$	643.85	1.73034
n_{He-Ne}	632.80	1.73099
n_D	589.29	1.73387
n_d	587.56	1.73400
n_e	546.07	1.73742
n_F	486.13	1.74403
$n_{F'}$	479.99	1.74485
n_g	435.84	1.75189
n_h	404.66	1.75842
n_i	365.01	1.76975

Relative Partial Dispersion	
$P_{d,C}$	0.3026
$P_{e,d}$	0.2379
$P_{g,F}$	0.5467
$P'_{d,c'}$	0.2522
$P'_{e,d}$	0.2357
$P'_{g,f'}$	0.4851

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.786	0.618
2200	0.922	0.850
2000	0.987	0.974
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
950	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	0.998	0.996
440	0.997	0.994
420	0.995	0.989
400	0.992	0.984
390	0.989	0.977
380	0.983	0.966
370	0.973	0.947
360	0.954	0.912
350	0.926	0.859
340	0.885	0.782
330	0.823	0.677
320	0.735	0.540
310	0.595	0.352
300	0.385	0.148
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0121
$\Delta P_{C,t}$	0.0138
$\Delta P_{C,s}$	0.0064

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	44
-40/-30	47
-30/-20	48
-20/-10	49
-10/0	50
0/10	51
10/20	51
20/30	52
30/40	52
40/50	53
50/60	53
60/70	54
70/80	54
80/90	55
90/100	55
100/110	56
110/120	57
120/130	58
130/140	59
140/150	60
150/160	61

Thermal Properties	
T _g ($^{\circ}C$)	636
T _s ($^{\circ}C$)	665
T ₁₀ ^{14.5} ($^{\circ}C$)	575
T ₁₀ ¹³ ($^{\circ}C$)	618
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	51
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	67
λ (W/(m K))	0.96

Constants of Dispersion Formula	
A ₀	2.94765208E+00
A ₁	-1.51684002E-02
A ₂	1.92673146E-02
A ₃	1.38888212E-03
A ₄	-1.55407755E-04
A ₅	9.21281201E-06

Mechanical Properties	
HK (10^7 Pa)	698
F _A	80
E (GPa)	112.3
G (GPa)	43.5
μ	0.291
σ_b (MPa)	85
B (10^{-12} /Pa)	1.81

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
4.07	-0.7

Range of Temperature ($^{\circ}C$)	Temperature Coefficients of Refractive Index									
	dn/dt relative ($\times 10^{-6} / ^{\circ}C$)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	6.0	6.4	6.6	6.6	6.7	6.9	7.0	7.5	7.6	7.8
-40 ~ -20	6.1	6.4	6.6	6.6	6.7	6.9	7.0	7.5	7.6	8.0
-20 ~ 0	6.1	6.5	6.7	6.7	6.8	7.0	7.1	7.6	7.7	8.2
0 ~ 20	6.1	6.5	6.7	6.7	6.8	7.0	7.2	7.7	7.7	8.2
20 ~ 40	6.2	6.6	6.8	6.8	6.9	7.2	7.2	7.8	7.8	8.2
40 ~ 60	6.2	6.7	6.9	7.0	7.0	7.2	7.5	8.0	8.0	8.6
60 ~ 80	6.5	6.9	7.0	7.1	7.1	7.4	7.5	8.1	8.1	8.6
80 ~ 100	6.5	7.0	7.2	7.3	7.3	7.6	7.6	8.3	8.4	8.9
100 ~ 120	6.7	7.2	7.4	7.5	7.5	7.6	7.6	8.5	8.6	9.2
120 ~ 140	6.9	7.3	7.5	7.6	7.6	8.1	8.1	8.6	8.7	9.4
140 ~ 160	7.0	7.4	7.7	7.7	7.8	8.1	8.1	8.8	8.9	9.7

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	360/290
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	343/291

Constants of dn/dt		
D ₀	D ₁	D ₂
7.73E-06	1.34E-08	-1.40E-11
E ₀	E ₁	λ_{TK}
4.76E-07	3.95E-10	2.32E-01