

H-LaK3	747510	$n_d = 1.74693$	$v_d = 50.95$	$n_F - n_C = 0.014660$
		$n_e = 1.75042$	$v_e = 50.72$	$n_{F'} - n_{C'} = 0.014794$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.70600
n_{1970}	1970.09	1.71332
n_{1530}	1529.58	1.72133
n_{1129}	1128.64	1.72838
n_{1064}	1064.00	1.72965
n_t	1013.98	1.73069
n_s	852.11	1.73471
$n_{A'}$	768.19	1.73747
n_f	706.52	1.73998
n_C	656.27	1.74250
$n_{C'}$	643.85	1.74320
n_{He-Ne}	632.80	1.74386
n_D	589.29	1.74680
n_d	587.56	1.74693
n_e	546.07	1.75042
n_F	486.13	1.75716
$n_{F'}$	479.99	1.75799
n_g	435.84	1.76523
n_h	404.66	1.77195
n_i	365.01	1.78350

Relative Partial Dispersion	
$P_{d,C}$	0.3022
$P_{e,d}$	0.2381
$P_{g,F}$	0.5505
$P'_{d,c'}$	0.2521
$P'_{e,d}$	0.2359
$P'_{g,f'}$	0.4894

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.779	0.612
2200	0.931	0.868
2000	0.986	0.963
1800	0.997	0.994
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	0.999	0.997
440	0.997	0.994
420	0.994	0.990
400	0.990	0.981
390	0.987	0.974
380	0.980	0.959
370	0.968	0.935
360	0.946	0.891
350	0.907	0.817
340	0.850	0.724
330	0.767	0.589
320	0.640	0.410
310	0.420	0.180
300	0.155	0.034
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0085
$\Delta P_{C,t}$	0.0186
$\Delta P_{C,s}$	0.0087

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	49
-40/-30	51
-30/-20	53
-20/-10	54
-10/0	54
0/10	54
10/20	55
20/30	56
30/40	56
40/50	56
50/60	57
60/70	57
70/80	57
80/90	58
90/100	58
100/110	59
110/120	59
120/130	60
130/140	61
140/150	62
150/160	63

Thermal Properties	
T _g ($^{\circ}C$)	674
T _s ($^{\circ}C$)	695
T ₁₀ ^{14.5} ($^{\circ}C$)	603
T ₁₀ ¹³ ($^{\circ}C$)	641
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	53
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	66
λ (W/(m K))	0.80

Mechanical Properties	
HK ($10^7 Pa$)	769
F _A	50
E (GPa)	120.3
G (GPa)	45.3
μ	0.328
σ_b (MPa)	96
B ($10^{-12}/Pa$)	1.56

Constants of Dispersion Formula	
A ₀	2.98964410E+00
A ₁	-1.53853950E-02
A ₂	2.14098946E-02
A ₃	7.35181833E-04
A ₄	-3.80789614E-05
A ₅	2.29046629E-06

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
4.10	-0.4

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	1.8	2.1	2.3	2.3	2.4	2.6	3.1	3.4	3.4	3.8
-40 ~ -20	2.2	2.4	2.7	2.7	2.8	3.0	3.4	3.8	3.9	4.3
-20 ~ 0	2.9	3.1	3.2	3.2	3.3	3.4	4.0	4.4	4.5	4.7
0 ~ 20	3.1	3.5	3.7	3.7	3.8	4.0	4.7	4.9	5.0	5.4
20 ~ 40	3.7	4.0	4.3	4.3	4.4	4.5	4.7	5.1	5.1	5.8
40 ~ 60	4.0	4.2	4.5	4.5	4.6	4.8	5.3	5.5	5.5	6.1
60 ~ 80	4.5	4.7	4.8	4.8	4.9	5.1	5.3	5.8	5.9	6.4
80 ~ 100	4.7	4.8	5.1	5.2	5.3	5.5	5.8	6.3	6.4	6.7
100 ~ 120	5.0	5.1	5.2	5.3	5.4	5.6	6.0	6.5	6.5	7.0
120 ~ 140	5.1	5.3	5.5	5.6	5.7	5.9	6.3	6.7	6.7	7.2
140 ~ 160	5.3	5.5	5.6	5.8	6.0	6.3	6.6	6.8	6.9	7.5

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/300
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	332/264

Constants of dn/dt		
D ₀	D ₁	D ₂
2.62E-06	2.82E-08	-5.41E-11
E ₀	E ₁	λ_{TK}
5.36E-07	-4.51E-11	2.24E-01