

H-LaK7	713539	$n_d = 1.71300$	$v_d = 53.94$	$n_F - n_C = 0.013219$
		$n_e = 1.71615$	$v_e = 53.72$	$n_F - n_C = 0.013332$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.67450
n_{1970}	1970.09	1.68160
n_{1530}	1529.58	1.68930
n_{1129}	1128.64	1.69601
n_{1064}	1064.00	1.69720
n_t	1013.98	1.69818
n_s	852.11	1.70190
$n_{A'}$	768.19	1.70441
n_f	706.52	1.70670
n_C	656.27	1.70898
$n_{C'}$	643.85	1.70962
n_{He-Ne}	632.80	1.71021
n_D	589.29	1.71287
n_d	587.56	1.71300
n_e	546.07	1.71615
n_F	486.13	1.72220
$n_{F'}$	479.99	1.72295
n_g	435.84	1.72943
n_h	404.66	1.73545
n_i	365.01	1.74574

Relative Partial Dispersion	
$P_{d,C}$	0.3041
$P_{e,d}$	0.2383
$P_{g,F}$	0.5469
$P'_{d,c'}$	0.2535
$P'_{e,d}$	0.2363
$P'_{g,F'}$	0.4860

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	0.774	0.600
2200	0.924	0.854
2000	0.986	0.972
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	0.993
420	0.995	0.990
400	0.993	0.984
390	0.990	0.977
380	0.987	0.964
370	0.975	0.939
360	0.950	0.899
350	0.914	0.833
340	0.860	0.738
330	0.785	0.614
320	0.687	0.473
310	0.577	0.334
300	0.464	0.217
290	0.355	0.128
280	0.248	0.063

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0028
$\Delta P_{g,F}$	-0.0071
$\Delta P_{C,t}$	0.0155
$\Delta P_{C,s}$	0.0057

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	53
-40/-30	54
-30/-20	56
-20/-10	57
-10/0	57
0/10	58
10/20	61
20/30	62
30/40	62
40/50	63
50/60	64
60/70	64
70/80	65
80/90	65
90/100	66
100/110	67
110/120	67
120/130	68
130/140	69
140/150	70
150/160	71

Thermal Properties	
T _g ($^{\circ}C$)	640
T _s ($^{\circ}C$)	665
T ₁₀ ^{14.5} ($^{\circ}C$)	573
T ₁₀ ¹³ ($^{\circ}C$)	619
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	61
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	77
λ (W/(m K))	0.77

Constants of Dispersion Formula	
A ₀	2.87989018E+00
A ₁	-1.46958687E-02
A ₂	1.89956868E-02
A ₃	6.06495285E-04
A ₄	-2.91346717E-05
A ₅	1.65584289E-06

Mechanical Properties	
HK (10^7 Pa)	626
F _A	76
E (GPa)	111.1
G (GPa)	43.2
μ	0.285
σ_b (MPa)	64
B (10^{-12} /Pa)	1.67

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
3.78	-1.7

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	3.6	3.8	4.0	4.1	4.1	4.2	4.3	4.7	4.7	5.1
-40 ~ -20	3.6	3.8	4.0	4.0	4.1	4.3	4.3	4.8	4.9	5.2
-20 ~ 0	3.7	3.9	4.1	4.1	4.1	4.3	4.5	4.8	4.9	5.3
0 ~ 20	3.7	3.9	4.1	4.1	4.1	4.4	4.5	5.0	5.1	5.4
20 ~ 40	3.7	3.9	4.1	4.1	4.2	4.4	4.6	5.0	5.1	5.5
40 ~ 60	3.7	3.9	4.2	4.2	4.2	4.5	4.7	5.1	5.2	5.6
60 ~ 80	3.8	4.0	4.3	4.3	4.4	4.7	4.9	5.3	5.3	5.7
80 ~ 100	3.9	4.1	4.5	4.5	4.5	4.8	5.0	5.4	5.4	5.8
100 ~ 120	4.1	4.3	4.7	4.7	4.8	5.1	5.3	5.4	5.4	6.0
120 ~ 140	4.2	4.4	4.8	4.8	4.9	5.3	5.4	5.6	5.6	6.2
140 ~ 160	4.3	4.5	5.0	5.0	5.1	5.4	5.6	5.7	5.7	6.5

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	360/270
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	337/268

Constants of dn/dt		
D ₀	D ₁	D ₂
3.18E-06	1.31E-08	-1.47E-11
E ₀	E ₁	λ_{TK}
5.57E-07	3.42E-10	1.46E-01