

H-LaK9	699511	$n_d = 1.69930$	$v_d = 51.11$	$n_F - n_C = 0.013682$
		$n_e = 1.70256$	$v_e = 50.82$	$n_F - n_C = 0.013825$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.66716
n_{1970}	1970.09	1.67189
n_{1530}	1529.58	1.67730
n_{1129}	1128.64	1.68265
n_{1064}	1064.00	1.68370
n_t	1013.98	1.68458
n_s	852.11	1.68810
$n_{A'}$	768.19	1.69058
n_f	706.52	1.69288
n_C	656.27	1.69520
$n_{C'}$	643.85	1.69585
n_{He-Ne}	632.80	1.69646
n_D	589.29	1.69918
n_d	587.56	1.69930
n_e	546.07	1.70256
n_F	486.13	1.70888
$n_{F'}$	479.99	1.70967
n_g	435.84	1.71650
n_h	404.66	1.72288
n_i	365.01	1.73368

Relative Partial Dispersion	
$P_{d,C}$	0.2997
$P_{e,d}$	0.2383
$P_{g,F}$	0.5569
$P'_{d,c'}$	0.2495
$P'_{e,d}$	0.2358
$P'_{g,F'}$	0.4940

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

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.916	0.838
2200	0.969	0.939
2000	0.987	0.974
1800	0.994	0.988
1600	0.998	0.995
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	0.996	0.992
480	0.994	0.988
460	0.991	0.983
440	0.989	0.978
420	0.987	0.974
400	0.982	0.964
390	0.976	0.953
380	0.966	0.934
370	0.948	0.899
360	0.918	0.842
350	0.868	0.754
340	0.792	0.627
330	0.685	0.469
320	0.540	0.292
310	0.366	0.134
300	0.200	0.040
290		
280		

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0018
$\Delta P_{C,t}$	-0.0116
$\Delta P_{C,s}$	-0.0041

Expansion Coefficient α ($\times 10^{-7}/K$)	
$^{\circ}C$	α
-50/-40	79
-40/-30	80
-30/-20	81
-20/-10	82
-10/0	83
0/10	85
10/20	85
20/30	87
30/40	88
40/50	88
50/60	90
60/70	91
70/80	91
80/90	91
90/100	93
100/110	94
110/120	94
120/130	96
130/140	96
140/150	96
150/160	98

Thermal Properties	
T _g ($^{\circ}C$)	654
T _s ($^{\circ}C$)	695
T ₁₀ ^{14.5} ($^{\circ}C$)	618
T ₁₀ ¹³ ($^{\circ}C$)	645
$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	85
$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	95
λ (W/(m K))	0.66

Constants of Dispersion Formula	
A ₀	2.82518848E+00
A ₁	-9.25237822E-03
A ₂	2.31572298E-02
A ₃	-5.65059188E-04
A ₄	1.62553405E-04
A ₅	-9.14469356E-06

Mechanical Properties	
HK (10^7 Pa)	511
F _A	253
E (GPa)	84.5
G (GPa)	32.3
μ	0.309
σ_b (MPa)	81
B (10^{-12} /Pa)	1.37

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
4.26	-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	-2.7	-2.5	-2.3	-2.3	-2.2	-2.0	-1.7	-1.6	-1.6	-1.4
-40 ~ -20	-2.7	-2.5	-2.2	-2.1	-2.0	-1.8	-1.7	-1.5	-1.5	-1.4
-20 ~ 0	-2.6	-2.4	-2.0	-2.0	-1.9	-1.7	-1.5	-1.4	-1.3	-1.2
0 ~ 20	-2.5	-2.3	-1.8	-1.8	-1.8	-1.5	-1.4	-1.3	-1.2	-1.0
20 ~ 40	-2.5	-2.2	-1.7	-1.7	-1.6	-1.5	-1.4	-1.3	-1.1	-0.9
40 ~ 60	-2.5	-2.2	-1.7	-1.6	-1.6	-1.4	-1.3	-1.1	-1.0	-0.8
60 ~ 80	-2.4	-2.1	-1.5	-1.5	-1.4	-1.2	-1.1	-0.9	-0.8	-0.6
80 ~ 100	-2.3	-1.8	-1.4	-1.4	-1.4	-1.0	-1.0	-0.8	-0.7	-0.4
100 ~ 120	-2.3	-1.8	-1.2	-1.2	-1.2	-1.0	-0.9	-0.6	-0.6	-0.4
120 ~ 140	-2.1	-1.7	-1.2	-1.2	-1.2	-0.8	-0.8	-0.7	-0.5	-0.1
140 ~ 160	-2.1	-1.6	-1.1	-1.1	-1.0	-0.7	-0.5	-0.3	-0.2	0.1

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/310
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	355/304

Constants of dn/dt		
D ₀	D ₁	D ₂
-7.86E-06	1.43E-08	-2.55E-11
E ₀	E ₁	λ_{TK}
6.68E-07	5.75E-10	2.86E-16