

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		
	$\lambda(\text{nm})$	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_t	1013.98	1.73069
n_s	852.11	1.73471
$n_{A'}$	768.19	1.73747
n_r	706.52	1.73998
n_C	656.27	1.74250
$n_{C'}$	643.85	1.74320
$n_{\text{He-Ne}}$	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

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

Relative Partial Dispersions			
$P_{d,C}$	0.3022	$P'_{d,C'}$	0.2522
$P_{e,d}$	0.2381	$P'_{e,d}$	0.2360
$P_{g,F}$	0.5505	$P'_{g,F'}$	0.4895

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative ($10^{-6} / ^\circ\text{C}$)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	2.0	2.7	2.8	3.0	3.3	4.0	4.4
-20 ~ 0	2.8	3.3	3.3	3.5	4.1	4.5	4.7
0 ~ 20	3.0	3.8	3.8	4.0	4.6	5.0	5.4
20 ~ 40	3.6	4.2	4.3	4.4	4.6	5.3	5.9
40 ~ 60	4.1	4.6	4.6	4.8	5.2	5.5	6.0
60 ~ 80	4.5	4.9	4.9	5.1	5.3	5.8	6.3

Chemical Properties (grade)	
RC(S)	1
RA(S)	1
D_W	1
D_A	3
$R_{OH}(S)$	1
RP(S)	2

Thermal Properties	
$T_g(^{\circ}\text{C})$	658
$T_s(^{\circ}\text{C})$	694
$T_{10}^{14.5}(^{\circ}\text{C})$	603
$T_{10}^{13}(^{\circ}\text{C})$	641
$\alpha_{-50/80^{\circ}\text{C}}(10^{-7}/\text{K})$	53
$\alpha_{100/300^{\circ}\text{C}}(10^{-7}/\text{K})$	66

Mechanical Properties	
HK(10^7Pa)	769
F_A	50
$E(10^7\text{Pa})$	11884
$G(10^7\text{Pa})$	4712
μ	0.261
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	1.590

Density	
$\rho(\text{g}/\text{cm}^3)$	4.10

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

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
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
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		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/300

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	