

<b>H-LaK51      697555</b>	$n_d = 1.69680$	$v_d = 55.46$	$n_F - n_C = 0.012564$
	$n_e = 1.69980$	$v_e = 55.25$	$n_{F'} - n_{C'} = 0.012667$

Refractive Indices		
	$\lambda(\text{nm})$	$n_\lambda$
$n_{2325}$	2325.42	1.65840
$n_{1970}$	1970.09	1.66575
$n_{1530}$	1529.58	1.67368
$n_{1129}$	1128.64	1.68042
$n_t$	1013.98	1.68254
$n_s$	852.11	1.68616
$n_{A'}$	768.19	1.68859
$n_r$	706.52	1.69079
$n_C$	656.27	1.69297
$n_{C'}$	643.85	1.69358
$n_{\text{He-Ne}}$	632.80	1.69415
$n_D$	589.29	1.69669
$n_d$	587.56	1.69680
$n_e$	546.07	1.69980
$n_F$	486.13	1.70553
$n_{F'}$	479.99	1.70625
$n_g$	435.84	1.71234
$n_h$	404.66	1.71800
$n_i$	365.01	1.72765

Constants of Dispersion Formula	
$A_0$	2.82930828E+00
$A_1$	-1.51991877E-02
$A_2$	1.69710302E-02
$A_3$	9.14047795E-04
$A_4$	-8.69746514E-05
$A_5$	4.85293775E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3049	$P'_{d,C'}$	0.2541
$P_{e,d}$	0.2389	$P'_{e,d}$	0.2368
$P_{g,F}$	0.5422	$P'_{g,F'}$	0.4807

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	3.9	4.4	4.4	4.5	4.7	5.0	5.4
-20 ~ 0	3.9	4.3	4.4	4.5	4.7	5.0	5.4
0 ~ 20	3.9	4.3	4.4	4.5	4.7	5.1	5.5
20 ~ 40	3.9	4.4	4.4	4.6	4.7	5.1	5.5
40 ~ 60	4.0	4.5	4.5	4.7	4.9	5.3	5.7
60 ~ 80	4.1	4.7	4.7	4.8	5.0	5.5	5.9

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

Thermal Properties	
$T_g(^\circ\text{C})$	637
$T_s(^\circ\text{C})$	672
$T_{10}^{14.5}(^\circ\text{C})$	591
$T_{10}^{13}(^\circ\text{C})$	625
$\alpha_{-50/80^\circ\text{C}}(10^{-7}/\text{K})$	55
$\alpha_{100/300^\circ\text{C}}(10^{-7}/\text{K})$	71

Mechanical Properties	
HK( $10^7\text{Pa}$ )	680
$F_A$	85
$E(10^7\text{Pa})$	10113
$G(10^7\text{Pa})$	3923
$\mu$	0.289
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	1.810

Density	
$\rho(\text{g}/\text{cm}^3)$	3.69

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0034
$\Delta P_{g,F}$	-0.0093
$\Delta P_{C,t}$	0.0216
$\Delta P_{C,s}$	0.0087

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.757	0.575
2200	0.923	0.846
2000	0.986	0.960
1800	0.999	0.993
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	0.998
440	0.999	0.998
420	0.997	0.993
400	0.992	0.987
390	0.990	0.980
380	0.985	0.971
370	0.975	0.951
360	0.957	0.918
350	0.928	0.862
340	0.885	0.787
330	0.827	0.683
320	0.748	0.561
310	0.643	0.417
300	0.553	0.308
290	0.451	0.206
280	0.328	0.110

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	360/280

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	346/277