

<b>H-LaK54</b> <b>734511</b>	$n_d = 1.73400$	$v_d = 51.05$	$n_F - n_C = 0.014377$
	$n_e = 1.73742$	$v_e = 50.82$	$n_{F'} - n_{C'} = 0.014511$

Refractive Indices		
	$\lambda(\text{nm})$	$n_\lambda$
$n_{2325}$	2325.42	1.69388
$n_{1970}$	1970.09	1.70113
$n_{1530}$	1529.58	1.70899
$n_{1129}$	1128.64	1.71588
$n_t$	1013.98	1.71813
$n_s$	852.11	1.72204
$n_{A'}$	768.19	1.72471
$n_r$	706.52	1.72718
$n_C$	656.27	1.72965
$n_{C'}$	643.85	1.73034
$n_{\text{He-Ne}}$	632.80	1.73099
$n_D$	589.29	1.73387
$n_d$	587.56	1.73400
$n_e$	546.07	1.73742
$n_F$	486.13	1.74403
$n_{F'}$	479.99	1.74485
$n_g$	435.84	1.75189
$n_h$	404.66	1.75842
$n_i$	365.01	1.76975

Constants of Dispersion Formula	
$A_0$	2.94765208E+00
$A_1$	-1.51684002E-02
$A_2$	1.92673146E-02
$A_3$	1.38888212E-03
$A_4$	-1.55407755E-04
$A_5$	9.21281201E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3025	$P'_{d,C'}$	0.2522
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2357
$P_{g,F}$	0.5466	$P'_{g,F'}$	0.4852

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	6.1	6.7	6.7	6.9	7.1	7.6	8.0
-20 ~ 0	6.1	6.7	6.7	6.9	7.1	7.6	8.1
0 ~ 20	6.1	6.7	6.8	7.0	7.2	7.7	8.2
20 ~ 40	6.2	6.8	6.8	7.0	7.2	7.8	8.3
40 ~ 60	6.2	6.9	6.9	7.1	7.4	7.9	8.5
60 ~ 80	6.4	7.1	7.1	7.3	7.5	8.1	8.7

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

Thermal Properties	
$T_g(^\circ\text{C})$	626
$T_s(^\circ\text{C})$	663
$T_{10}^{14.5}(^\circ\text{C})$	575
$T_{10}^{13}(^\circ\text{C})$	618
$\alpha_{-50/80^\circ\text{C}}(10^{-7}/\text{K})$	51
$\alpha_{100/300^\circ\text{C}}(10^{-7}/\text{K})$	67

Mechanical Properties	
HK( $10^7\text{Pa}$ )	698
$F_A$	80
$E(10^7\text{Pa})$	11494
$G(10^7\text{Pa})$	4445
$\mu$	0.293
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	2.060

Density	
$\rho(\text{g}/\text{cm}^3)$	4.07

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0122
$\Delta P_{C,t}$	0.0136
$\Delta P_{C,s}$	0.0063

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.786	0.618
2200	0.922	0.850
2000	0.987	0.974
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
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	0.994
420	0.995	0.989
400	0.992	0.984
390	0.989	0.977
380	0.983	0.966
370	0.973	0.947
360	0.954	0.912
350	0.926	0.859
340	0.885	0.782
330	0.823	0.677
320	0.735	0.540
310	0.595	0.352
300	0.385	0.148
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/290

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