

H-ZK9 620603	$n_d = 1.62041$	$v_d = 60.34$	$n_F - n_C = 0.010281$
	$n_e = 1.62286$	$v_e = 60.10$	$n_{F'} - n_{C'} = 0.010363$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.58900
n_{1970}	1970.09	1.59500
n_{1530}	1529.58	1.60147
n_{1129}	1128.64	1.60697
n_t	1013.98	1.60871
n_s	852.11	1.61168
$n_{A'}$	768.19	1.61367
n_r	706.52	1.61547
n_C	656.27	1.61727
$n_{C'}$	643.85	1.61777
$n_{\text{He-Ne}}$	632.80	1.61824
n_D	589.29	1.62032
n_d	587.56	1.62041
n_e	546.07	1.62286
n_F	486.13	1.62755
$n_{F'}$	479.99	1.62813
n_g	435.84	1.63310
n_h	404.66	1.63768
n_i	365.01	1.64550

Constants of Dispersion Formula	
A_0	2.58664805E+00
A_1	-1.18712170E-02
A_2	1.32307928E-02
A_3	7.82598611E-04
A_4	-8.48132791E-05
A_5	4.75039380E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3054	$P'_{d,C'}$	0.2548
$P_{e,d}$	0.2383	$P'_{e,d}$	0.2365
$P_{g,F}$	0.5399	$P'_{g,F'}$	0.4797

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	1.7	2.1	2.1	2.2	2.3	2.6	2.8
-20 ~ 0	1.8	2.1	2.1	2.2	2.3	2.6	2.9
0 ~ 20	1.8	2.1	2.1	2.2	2.3	2.6	2.9
20 ~ 40	1.7	2.1	2.1	2.2	2.4	2.7	3.0
40 ~ 60	1.8	2.2	2.2	2.4	2.5	2.8	3.1
60 ~ 80	2.0	2.4	2.4	2.6	2.7	3.1	3.4

Chemical Properties (grade)	
RC(S)	1
RA(S)	2
D_W	2
D_A	4
$R_{OH}(S)$	3
RP(S)	2

Thermal Properties	
$T_g(^{\circ}\text{C})$	629
$T_s(^{\circ}\text{C})$	673
$T_{10}^{14.5}(^{\circ}\text{C})$	585
$T_{10}^{13}(^{\circ}\text{C})$	620
$\alpha_{-50/80^{\circ}\text{C}}(10^{-7}/\text{K})$	60
$\alpha_{100/300^{\circ}\text{C}}(10^{-7}/\text{K})$	76

Mechanical Properties	
HK(10^7Pa)	543
F_A	131
$E(10^7\text{Pa})$	8846
$G(10^7\text{Pa})$	3491
μ	0.267
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	1.820

Density	
$\rho(\text{g}/\text{cm}^3)$	3.57

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0007
$\Delta P_{g,F}$	-0.0035
$\Delta P_{C,t}$	0.0002
$\Delta P_{C,s}$	-0.0014

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.861	0.741
2200	0.943	0.889
2000	0.985	0.970
1800	0.996	0.992
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	0.995	0.990
400	0.992	0.984
390	0.989	0.978
380	0.986	0.972
370	0.979	0.958
360	0.962	0.925
350	0.929	0.863
340	0.887	0.787
330	0.825	0.681
320	0.730	0.533
310	0.599	0.359
300	0.443	0.196
290	0.286	0.082
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	360/300

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	342/291