

H-ZK50 607567	$n_d = 1.60738$	$v_d = 56.65$	$n_F - n_C = 0.010721$
	$n_e = 1.60994$	$v_e = 56.38$	$n_{F'} - n_{C'} = 0.010819$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.57933
n_{1970}	1970.09	1.58405
n_{1530}	1529.58	1.58926
n_{1129}	1128.64	1.59403
n_t	1013.98	1.59564
n_s	852.11	1.59850
$n_{A'}$	768.19	1.60048
n_r	706.52	1.60230
n_C	656.27	1.60414
$n_{C'}$	643.85	1.60465
$n_{\text{He-Ne}}$	632.80	1.60513
n_D	589.29	1.60729
n_d	587.56	1.60738
n_e	546.07	1.60994
n_F	486.13	1.61486
$n_{F'}$	479.99	1.61547
n_g	435.84	1.62073
n_h	404.66	1.62562
n_i	365.01	1.63393

Constants of Dispersion Formula	
A_0	2.54047355E+00
A_1	-9.05535161E-03
A_2	1.49621725E-02
A_3	3.92388778E-04
A_4	-1.51543800E-05
A_5	7.76341926E-07

Relative Partial Dispersions			
$P_{d,C}$	0.3022	$P'_{d,C'}$	0.2523
$P_{e,d}$	0.2388	$P'_{e,d}$	0.2366
$P_{g,F}$	0.5476	$P'_{g,F'}$	0.4861

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	0.9	1.3	1.3	1.4	1.6	1.9	2.3
-20 ~ 0	0.8	1.2	1.2	1.3	1.5	1.9	2.2
0 ~ 20	0.8	1.2	1.2	1.3	1.5	1.9	2.2
20 ~ 40	0.8	1.2	1.2	1.3	1.5	1.9	2.3
40 ~ 60	0.8	1.2	1.3	1.4	1.6	2.0	2.4
60 ~ 80	0.9	1.4	1.4	1.5	1.7	2.1	2.5

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

Thermal Properties	
$T_g(^\circ\text{C})$	579
$T_s(^\circ\text{C})$	632
$T_{10}^{14.5}(^\circ\text{C})$	532
$T_{10}^{13}(^\circ\text{C})$	570
$\alpha_{-50/80^\circ\text{C}}(10^{-7}/\text{K})$	80
$\alpha_{100/300^\circ\text{C}}(10^{-7}/\text{K})$	95

Mechanical Properties	
HK(10^7Pa)	489
F_A	210
$E(10^7\text{Pa})$	6377
$G(10^7\text{Pa})$	2525
μ	0.263
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	2.280

Density	
$\rho(\text{g}/\text{cm}^3)$	3.47

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0000
$\Delta P_{g,F}$	-0.0019
$\Delta P_{C,t}$	-0.0217
$\Delta P_{C,s}$	-0.0102

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.917	0.841
2200	0.952	0.904
2000	0.983	0.966
1800	0.993	0.986
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	0.995
400	0.995	0.991
390	0.992	0.986
380	0.990	0.981
370	0.983	0.968
360	0.971	0.944
350	0.948	0.897
340	0.903	0.813
330	0.824	0.673
320	0.698	0.482
310	0.515	0.262
300	0.312	0.095
290	0.145	0.021
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	350/295

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	335/292