

H-ZK7 613606	$n_d = 1.61309$	$v_d = 60.58$	$n_F - n_C = 0.010120$
	$n_e = 1.61551$	$v_e = 60.34$	$n_{F'} - n_{C'} = 0.010201$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.58167
n_{1970}	1970.09	1.58774
n_{1530}	1529.58	1.59425
n_{1129}	1128.64	1.59978
n_t	1013.98	1.60153
n_s	852.11	1.60447
$n_{A'}$	768.19	1.60644
n_r	706.52	1.60824
n_C	656.27	1.61001
$n_{C'}$	643.85	1.61050
$n_{\text{He-Ne}}$	632.80	1.61096
n_D	589.29	1.61300
n_d	587.56	1.61309
n_e	546.07	1.61551
n_F	486.13	1.62013
$n_{F'}$	479.99	1.62070
n_g	435.84	1.62558
n_h	404.66	1.63010
n_i	365.01	1.63781

Constants of Dispersion Formula	
A_0	2.56390954E+00
A_1	-1.19544800E-02
A_2	1.29814065E-02
A_3	7.63370116E-04
A_4	-8.49272389E-05
A_5	4.90873446E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3043	$P'_{d,C'}$	0.2539
$P_{e,d}$	0.2391	$P'_{e,d}$	0.2373
$P_{g,F}$	0.5385	$P'_{g,F'}$	0.4784

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative (10 ⁻⁶ / °C)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	0.8	1.2	1.2	1.3	1.5	1.7	2.1
-20 ~ 0	1.2	1.4	1.4	1.5	1.8	1.9	2.3
0 ~ 20	1.2	1.6	1.6	1.7	1.8	2.0	2.3
20 ~ 40	1.4	1.7	1.7	1.8	1.9	2.0	2.4
40 ~ 60	1.4	1.7	1.8	1.9	1.9	2.3	2.5
60 ~ 80	1.5	1.7	1.8	1.9	2.1	2.3	2.6

Chemical Properties (grade)	
RC(S)	1
RA(S)	1
D _W	2
D _A	4
R _{OH} (S)	2
RP(S)	2

Thermal Properties	
T _g (°C)	633
T _s (°C)	681
T ₁₀ ^{14.5} (°C)	582
T ₁₀ ¹³ (°C)	623
$\alpha_{-50/80^\circ\text{C}}$ (10 ⁻⁷ /K)	59
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	73

Mechanical Properties	
HK(10 ⁷ Pa)	539
F _A	149
E(10 ⁷ Pa)	8892
G(10 ⁷ Pa)	3512
μ	0.266
B(nm/cm/10 ⁵ Pa)	1.860

Density	
ρ (g/cm ³)	3.50

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0002
$\Delta P_{g,F}$	-0.0044
$\Delta P_{C,t}$	0.0043
$\Delta P_{C,s}$	0.0016

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.841	0.707
2200	0.925	0.857
2000	0.981	0.963
1800	0.992	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	0.999	0.998
400	0.999	0.994
390	0.999	0.989
380	0.994	0.979
370	0.985	0.966
360	0.970	0.935
350	0.939	0.877
340	0.889	0.784
330	0.807	0.650
320	0.689	0.472
310	0.529	0.280
300	0.348	0.123
290	0.181	0.037
280		

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

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	344/297