

<b>H-ZK10N      623570</b>	$n_d = 1.62280$	$v_d = 56.98$	$n_F - n_C = 0.010931$
	$n_e = 1.62541$	$v_e = 56.74$	$n_{F'} - n_{C'} = 0.011023$

Refractive Indices		
	$\lambda(\text{nm})$	$n_\lambda$
$n_{2325}$	2325.42	1.59301
$n_{1970}$	1970.09	1.59824
$n_{1530}$	1529.58	1.60395
$n_{1129}$	1128.64	1.60905
$n_t$	1013.98	1.61074
$n_s$	852.11	1.61370
$n_{A'}$	768.19	1.61574
$n_r$	706.52	1.61761
$n_C$	656.27	1.61948
$n_{C'}$	643.85	1.62002
$n_{\text{He-Ne}}$	632.80	1.62051
$n_D$	589.29	1.62270
$n_d$	587.56	1.62280
$n_e$	546.07	1.62541
$n_F$	486.13	1.63042
$n_{F'}$	479.99	1.63104
$n_g$	435.84	1.63640
$n_h$	404.66	1.64137
$n_i$	365.01	1.64991

Constants of Dispersion Formula	
$A_0$	2.59014840E+00
$A_1$	-1.02058942E-02
$A_2$	1.46533223E-02
$A_3$	6.73060988E-04
$A_4$	-6.20100997E-05
$A_5$	3.69826067E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3035	$P'_{d,C'}$	0.2523
$P_{e,d}$	0.2386	$P'_{e,d}$	0.2368
$P_{g,F}$	0.5466	$P'_{g,F'}$	0.4864

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	2.0	2.4	2.4	2.5	2.7	3.0	3.3
-20 ~ 0	2.0	2.4	2.4	2.5	2.7	3.0	3.4
0 ~ 20	2.0	2.4	2.5	2.6	2.7	3.1	3.5
20 ~ 40	2.0	2.5	2.5	2.6	2.8	3.1	3.5
40 ~ 60	2.1	2.5	2.6	2.7	2.9	3.3	3.6
60 ~ 80	2.2	2.7	2.7	2.9	3.0	3.4	3.8

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

Thermal Properties	
$T_g(^{\circ}\text{C})$	645
$T_s(^{\circ}\text{C})$	695
$T_{10}^{14.5}(^{\circ}\text{C})$	595
$T_{10}^{13}(^{\circ}\text{C})$	638
$\alpha_{-50/80^{\circ}\text{C}}(10^{-7}/\text{K})$	66
$\alpha_{100/300^{\circ}\text{C}}(10^{-7}/\text{K})$	80

Mechanical Properties	
HK( $10^7\text{Pa}$ )	521
$F_A$	153
$E(10^7\text{Pa})$	8332
$G(10^7\text{Pa})$	3285
$\mu$	0.268
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	1.880

Density	
$\rho(\text{g}/\text{cm}^3)$	3.64

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0008
$\Delta P_{g,F}$	-0.0023
$\Delta P_{C,t}$	-0.0173
$\Delta P_{C,s}$	-0.0088

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.914	0.825
2200	0.963	0.923
2000	0.996	0.984
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	0.999	0.998
440	0.999	0.998
420	0.997	0.995
400	0.994	0.992
390	0.991	0.981
380	0.981	0.965
370	0.967	0.933
360	0.931	0.866
350	0.857	0.737
340	0.725	0.526
330	0.484	0.237
320	0.183	0.039
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	360/320

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