H-ZK14 603606

n_d = 1.60311	υ_d = 60.60	$n_F - n_C$ = 0.009952
n_e = 1.60548	υ_e = 60.35	$n_{F'} - n_{C'}$ = 0.010033

Refractive Indices		
	λ(nm)	n_λ
n_{2325}	2325.42	1.57306
n_{1970}	1970.09	1.57877
n_{1530}	1529.58	1.58492
n_{1129}	1128.64	1.59017
n_t	1013.98	1.59184
n_s	852.11	1.59468
$n_{A'}$	768.19	1.59660
n_r	706.52	1.59834
n_C	656.27	1.60007
$n_{C'}$	643.85	1.60056
n_{He-Ne}	632.80	1.60101
n_D	589.29	1.60302
n_d	587.56	1.60311
n_e	546.07	1.60548
n_F	486.13	1.61003
$n_{F'}$	479.99	1.61059
n_g	435.84	1.61542
n_h	404.66	1.61986
n_i	365.01	1.62740

Constants of Dispersion Formula	
A_0	2.53252307E+00
A_1	-1.11610362E-02
A_2	1.26348900E-02
A_3	7.37549464E-04
A_4	-7.33089145E-05
A_5	3.78538867E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3052	$P'_{d,c'}$	0.2542
$P_{e,d}$	0.2380	$P'_{e,d}$	0.2363
$P_{g,F}$	0.5412	$P'_{g,F'}$	0.4816

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

Thermal Properties	
Tg(℃)	631
Ts(℃)	683
$T_{10}^{14.5}$(℃)	583
T_{10}^{13}(℃)	615
$\alpha_{-50/80℃}$(10^{-7}/K)	57
$\alpha_{100/300℃}$(10^{-7}/K)	73

Mechanical Properties	
HK(10^7Pa)	567
F_A	131
E(10^7Pa)	8917
G(10^7Pa)	3525
μ	0.265
B(nm/cm/10^5Pa)	1.990

Density	
ρ (g/cm^3)	3.40

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	0.0001
$\triangle P_{g,F}$	-0.0018
$\triangle P_{C,t}$	-0.0075
$\triangle P_{C,s}$	-0.0047

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.879	0.774
2200	0.939	0.880
2000	0.983	0.967
1800	0.993	0.984
1600	0.999	0.996
1400	0.999	0.997
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	0.996	0.995
390	0.994	0.990
380	0.992	0.985
370	0.985	0.976
360	0.976	0.957
350	0.954	0.916
340	0.919	0.852
330	0.862	0.747
320	0.762	0.588
310	0.615	0.385
300	0.419	0.180
290	0.210	0.050
280		

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative (10^{-6} / ℃)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	2.7	3.0	3.0	3.1	3.3	3.5	3.8
-20 ~ 0	2.7	3.1	3.1	3.2	3.3	3.6	3.9
0 ~ 20	2.7	3.1	3.1	3.2	3.4	3.7	4.0
20 ~ 40	2.7	3.1	3.1	3.2	3.4	3.7	4.0
40 ~ 60	2.8	3.2	3.2	3.3	3.5	3.8	4.1
60 ~ 80	3.0	3.4	3.4	3.5	3.7	4.0	4.4

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	350/300

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	341/295