H-ZK21 623581

n_d = 1.62299	υ_d = 58.12	$n_F - n_C$ = 0.010719
n_e = 1.62555	υ_e = 57.87	$n_{F'} - n_{C'}$ = 0.010809

Refractive Indices		
	λ(nm)	n_λ
n_{2325}	2325.42	1.59235
n_{1970}	1970.09	1.59795
n_{1530}	1529.58	1.60402
n_{1129}	1128.64	1.60931
n_t	1013.98	1.61103
n_s	852.11	1.61401
$n_{A'}$	768.19	1.61603
n_r	706.52	1.61787
n_C	656.27	1.61973
$n_{C'}$	643.85	1.62025
n_{He-Ne}	632.80	1.62074
n_D	589.29	1.62290
n_d	587.56	1.62299
n_e	546.07	1.62555
n_F	486.13	1.63045
$n_{F'}$	479.99	1.63106
n_g	435.84	1.63629
n_h	404.66	1.64113
n_i	365.01	1.64946

Constants of Dispersion Formula	
A_0	2.59254654E+00
A_1	-1.10129354E-02
A_2	1.38896553E-02
A_3	8.21371542E-04
A_4	-8.84083953E-05
A_5	5.19951049E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3041	$P'_{d,c'}$	0.2535
$P_{e,d}$	0.2388	$P'_{e,d}$	0.2368
$P_{g,F}$	0.5448	$P'_{g,F'}$	0.4838

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(℃)	658
Ts(℃)	704
$T_{10}^{14.5}$(℃)	605
T_{10}^{13}(℃)	651
$\alpha_{-50/80℃}$(10^{-7}/K)	64
$\alpha_{100/300℃}$(10^{-7}/K)	79

Mechanical Properties	
HK(10^7Pa)	558
F_A	138
E(10^7Pa)	9979
G(10^7Pa)	4021
μ	0.241
B(nm/cm/10^5Pa)	1.970

Density	
ρ (g/cm^3)	3.57

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	-0.0010
$\triangle P_{g,F}$	-0.0023
$\triangle P_{C,t}$	-0.0102
$\triangle P_{C,s}$	-0.0063

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.882	0.778
2200	0.948	0.899
2000	0.980	0.960
1800	0.988	0.976
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	0.996	0.992
400	0.993	0.986
390	0.990	0.980
380	0.986	0.972
370	0.975	0.951
360	0.956	0.914
350	0.938	0.880
340	0.881	0.776
330	0.788	0.621
320	0.656	0.430
310	0.488	0.238
300	0.314	0.099
290		
280		

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative (10^{-6} / ℃)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	1.9	2.3	2.3	2.4	2.5	2.8	3.1
-20 ~ 0	1.9	2.2	2.3	2.4	2.5	2.8	3.1
0 ~ 20	1.9	2.3	2.3	2.4	2.6	2.9	3.2
20 ~ 40	2.0	2.3	2.4	2.5	2.6	3.0	3.3
40 ~ 60	2.1	2.4	2.5	2.6	2.7	3.1	3.4
60 ~ 80	2.2	2.6	2.6	2.7	2.9	3.2	3.6

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	355/295

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