H-ZF12 762266

n_d = 1.76182	υ_d = 26.61	$n_F - n_C$ = 0.028631
n_e = 1.76857	υ_e = 26.39	$n_{F'} - n_{C'}$ = 0.029118

Refractive Indices		
	λ(nm)	n_λ
n_{2325}	2325.42	1.70927
n_{1970}	1970.09	1.71556
n_{1530}	1529.58	1.72304
n_{1129}	1128.64	1.73106
n_t	1013.98	1.73422
n_s	852.11	1.74028
$n_{A'}$	768.19	1.74478
n_r	706.52	1.74912
n_C	656.27	1.75359
$n_{C'}$	643.85	1.75487
n_{He-Ne}	632.80	1.75608
n_D	589.29	1.76157
n_d	587.56	1.76182
n_e	546.07	1.76857
n_F	486.13	1.78222
$n_{F'}$	479.99	1.78399
n_g	435.84	1.79975
n_h	404.66	1.81558
n_i	365.01	1.84562

Constants of Dispersion Formula	
A_0	2.98048977E+00
A_1	-1.22396125E-02
A_2	3.91094110E-02
A_3	1.60680583E-03
A_4	1.39107243E-06
A_5	1.34851004E-05

Relative Partial Dispersions			
$P_{d,C}$	0.2875	$P'_{d,c'}$	0.2387
$P_{e,d}$	0.2358	$P'_{e,d}$	0.2318
$P_{g,F}$	0.6123	$P'_{g,F'}$	0.5412

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

Thermal Properties	
Tg(℃)	602
Ts(℃)	643
$T_{10}^{14.5}$(℃)	544
T_{10}^{13}(℃)	590
$\alpha_{-50/80℃}$(10^{-7}/K)	85
$\alpha_{100/300℃}$(10^{-7}/K)	106

Mechanical Properties	
HK(10^7Pa)	545
F_A	158
E(10^7Pa)	8837
G(10^7Pa)	3549
μ	0.245
B(nm/cm/10^5Pa)	2.800

Density	
ρ (g/cm^3)	3.16

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	0.0013
$\triangle P_{g,F}$	0.0129
$\triangle P_{C,t}$	0.0075
$\triangle P_{C,s}$	0.0006

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.935	0.874
2200	0.956	0.914
2000	0.979	0.958
1800	0.986	0.972
1600	0.995	0.990
1400	0.998	0.996
1200	0.998	0.996
1060	0.998	0.996
1000	0.998	0.996
900	0.998	0.996
850	0.998	0.996
800	0.998	0.996
750	0.998	0.996
700	0.998	0.996
650	0.998	0.996
600	0.998	0.996
550	0.998	0.996
500	0.995	0.990
480	0.991	0.982
460	0.987	0.974
440	0.983	0.966
420	0.969	0.939
400	0.943	0.889
390	0.899	0.808
380	0.767	0.588
370	0.435	0.189
360		
350		
340		
330		
320		
310		
300		
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	0.3	1.3	1.4	1.7	2.2	3.3	4.7
-20 ~ 0	0.3	1.4	1.4	1.8	2.3	3.5	5.0
0 ~ 20	0.3	1.4	1.5	1.9	2.4	3.7	5.3
20 ~ 40	0.3	1.5	1.6	2.0	2.5	3.9	5.6
40 ~ 60	0.4	1.6	1.7	2.2	2.7	4.2	5.9
60 ~ 80	0.5	1.8	1.9	2.3	2.9	4.4	6.3

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	410/365

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	389/365