H-ZLaF53 834373

n_d = 1.83400	υ_d = 37.34	$n_F - n_C$ = 0.022333
n_e = 1.83930	υ_e = 37.09	$n_{F'} - n_{C'}$ = 0.022629

Refractive Indices		
	λ(nm)	n_λ
n_{2325}	2325.42	1.78596
n_{1970}	1970.09	1.79278
n_{1530}	1529.58	1.80056
n_{1129}	1128.64	1.80829
n_t	1013.98	1.81113
n_s	852.11	1.81639
$n_{A'}$	768.19	1.82019
n_r	706.52	1.82376
n_C	656.27	1.82742
$n_{C'}$	643.85	1.82845
n_{He-Ne}	632.80	1.82942
n_D	589.29	1.83381
n_d	587.56	1.83400
n_e	546.07	1.83930
n_F	486.13	1.84975
$n_{F'}$	479.99	1.85108
n_g	435.84	1.86275
n_h	404.66	1.87398
n_i	365.01	1.89424

Constants of Dispersion Formula	
A_0	3.26066843E+00
A_1	-1.43061602E-02
A_2	3.42503276E-02
A_3	9.45194718E-04
A_4	1.66625589E-05
A_5	3.78744906E-06

Relative Partial Dispersions			
$P_{d,C}$	0.2947	$P'_{d,c'}$	0.2452
$P_{e,d}$	0.2373	$P'_{e,d}$	0.2342
$P_{g,F}$	0.5822	$P'_{g,F'}$	0.5157

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

Thermal Properties	
Tg(℃)	585
Ts(℃)	625
$T_{10}^{14.5}$(℃)	535
T_{10}^{13}(℃)	573
$\alpha_{-50/80℃}$(10^{-7}/K)	54
$\alpha_{100/300℃}$(10^{-7}/K)	69

Mechanical Properties	
HK(10^7Pa)	631
F_A	80
E(10^7Pa)	11623
G(10^7Pa)	4488
μ	0.295
B(nm/cm/10^5Pa)	2.250

Density	
ρ (g/cm^3)	4.56

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	-0.0016
$\triangle P_{g,F}$	0.0006
$\triangle P_{C,t}$	0.0085
$\triangle P_{C,s}$	0.0039

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.828	0.685
2200	0.932	0.864
2000	0.967	0.933
1800	0.983	0.962
1600	0.992	0.980
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	0.996
650	0.999	0.995
600	0.999	0.995
550	0.999	0.994
500	0.997	0.989
480	0.994	0.984
460	0.991	0.977
440	0.986	0.967
420	0.983	0.952
400	0.964	0.913
390	0.942	0.871
380	0.901	0.792
370	0.809	0.633
360	0.605	0.343
350	0.250	0.057
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	7.6	8.6	8.7	9.0	9.4	10.3	11.3
-20 ~ 0	7.6	8.7	8.8	9.1	9.5	10.5	11.5
0 ~ 20	7.7	8.8	8.8	9.2	9.6	10.7	11.8
20 ~ 40	7.7	8.9	8.9	9.3	9.7	10.8	12.0
40 ~ 60	7.8	9.0	9.1	9.5	9.9	11.0	12.2
60 ~ 80	8.0	9.3	9.3	9.7	10.2	11.4	12.6

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	425/350

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	380/350