H-ZLaF51 805396

n_d = 1.80450	υ_d = 39.64	$n_F - n_C$ = 0.020298
n_e = 1.80932	υ_e = 39.39	$n_{F'} - n_{C'}$ = 0.020549

Refractive Indices		
	λ(nm)	n_λ
n_{2325}	2325.42	1.75652
n_{1970}	1970.09	1.76415
n_{1530}	1529.58	1.77263
n_{1129}	1128.64	1.78055
n_t	1013.98	1.78330
n_s	852.11	1.78829
$n_{A'}$	768.19	1.79181
n_r	706.52	1.79514
n_C	656.27	1.79849
$n_{C'}$	643.85	1.79943
n_{He-Ne}	632.80	1.80032
n_D	589.29	1.80433
n_d	587.56	1.80450
n_e	546.07	1.80932
n_F	486.13	1.81879
$n_{F'}$	479.99	1.81998
n_g	435.84	1.83043
n_h	404.66	1.84042
n_i	365.01	1.85837

Constants of Dispersion Formula	
A_0	3.16756610E+00
A_1	-1.61881168E-02
A_2	2.86160893E-02
A_3	1.60041120E-03
A_4	-1.14233104E-04
A_5	9.92280713E-06

Relative Partial Dispersions			
$P_{d,C}$	0.2961	$P'_{d,c'}$	0.2467
$P_{e,d}$	0.2374	$P'_{e,d}$	0.2345
$P_{g,F}$	0.5734	$P'_{g,F'}$	0.5085

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
$T_{10}^{14.5}$(℃)	533
T_{10}^{13}(℃)	568
$\alpha_{-50/80℃}$(10^{-7}/K)	55
$\alpha_{100/300℃}$(10^{-7}/K)	70

Mechanical Properties	
HK(10^7Pa)	664
F_A	76
E(10^7Pa)	11842
G(10^7Pa)	4597
μ	0.288
B(nm/cm/10^5Pa)	2.250

Density	
ρ (g/cm^3)	4.26

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	-0.0018
$\triangle P_{g,F}$	-0.0044
$\triangle P_{C,t}$	0.0161
$\triangle P_{C,s}$	0.0069

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.825	0.681
2200	0.950	0.903
2000	0.990	0.980
1800	0.998	0.996
1600	0.998	0.996
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	0.995	0.990
500	0.991	0.984
480	0.986	0.978
460	0.981	0.972
440	0.975	0.960
420	0.967	0.944
400	0.951	0.911
390	0.933	0.875
380	0.899	0.811
370	0.825	0.681
360	0.655	0.427
350	0.333	0.107
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	6.0	6.9	7.0	7.2	7.5	8.3	8.9
-20 ~ 0	6.8	7.3	7.4	7.6	7.9	8.9	9.9
0 ~ 20	7.0	7.6	7.7	8.0	8.3	9.5	10.4
20 ~ 40	7.0	8.0	8.0	8.3	8.7	9.6	10.5
40 ~ 60	7.3	8.3	8.3	8.7	9.1	9.8	11.1
60 ~ 80	7.5	8.5	8.6	8.9	9.3	10.4	11.4

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	410/350

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	378/347