H-ZLaF1 802443

n_d = 1.80166	υ_d = 44.27	$n_F - n_C$ = 0.018110
n_e = 1.80596	υ_e = 44.05	$n_{F'} - n_{C'}$ = 0.018298

Refractive Indices		
	λ(nm)	n_λ
n_{2325}	2325.42	1.75717
n_{1970}	1970.09	1.76442
n_{1530}	1529.58	1.77245
n_{1129}	1128.64	1.77986
n_t	1013.98	1.78241
n_s	852.11	1.78699
$n_{A'}$	768.19	1.79021
n_r	706.52	1.79320
n_C	656.27	1.79624
$n_{C'}$	643.85	1.79710
n_{He-Ne}	632.80	1.79790
n_D	589.29	1.80150
n_d	587.56	1.80166
n_e	546.07	1.80596
n_F	486.13	1.81435
$n_{F'}$	479.99	1.81540
n_g	435.84	1.82453
n_h	404.66	1.83313
n_i	365.01	1.84826

Constants of Dispersion Formula	
A_0	3.16631969E+00
A_1	-1.54466845E-02
A_2	2.60570901E-02
A_3	1.38032646E-03
A_4	-1.08373262E-04
A_5	7.65458938E-06

Relative Partial Dispersions			
$P_{d,C}$	0.2993	$P'_{d,c'}$	0.2492
$P_{e,d}$	0.2374	$P'_{e,d}$	0.2350
$P_{g,F}$	0.5621	$P'_{g,F'}$	0.4989

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

Thermal Properties	
Tg(℃)	639
Ts(℃)	672
$T_{10}^{14.5}$(℃)	596
T_{10}^{13}(℃)	627
$\alpha_{-50/80℃}$(10^{-7}/K)	56
$\alpha_{100/300℃}$(10^{-7}/K)	74

Mechanical Properties	
HK(10^7Pa)	681
F_A	75
E(10^7Pa)	12586
G(10^7Pa)	4852
μ	0.297
B(nm/cm/10^5Pa)	1.540

Density	
ρ (g/cm^3)	4.41

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	-0.0025
$\triangle P_{g,F}$	-0.0079
$\triangle P_{C,t}$	0.0090
$\triangle P_{C,s}$	0.0041

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.803	0.645
2200	0.935	0.874
2000	0.990	0.980
1800	0.999	0.998
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	0.997	0.994
460	0.995	0.989
440	0.993	0.984
420	0.990	0.979
400	0.985	0.967
390	0.978	0.953
380	0.964	0.927
370	0.936	0.875
360	0.875	0.766
350	0.735	0.547
340	0.447	0.210
330	0.104	0.016
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	4.6	5.3	5.4	5.6	5.8	6.5	7.1
-20 ~ 0	4.6	5.3	5.4	5.6	5.9	6.5	7.2
0 ~ 20	4.6	5.4	5.4	5.7	6.0	6.6	7.4
20 ~ 40	4.6	5.4	5.5	5.7	6.0	6.7	7.4
40 ~ 60	4.8	5.6	5.6	5.9	6.2	6.9	7.7
60 ~ 80	4.9	5.8	5.8	6.1	6.4	7.2	8.0

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	390/340

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	363/334