H-ZLaF70 904313

n_d = 1.90366	υ_d = 31.32	$n_F - n_C$ = 0.028857
n_e = 1.91048	υ_e = 31.08	$n_{F'} - n_{C'}$ = 0.029295

Refractive Indices		
	λ(nm)	n_λ
n_{2325}	2325.42	1.84663
n_{1970}	1970.09	1.85408
n_{1530}	1529.58	1.86274
n_{1129}	1128.64	1.87166
n_t	1013.98	1.87504
n_s	852.11	1.88144
$n_{A'}$	768.19	1.88615
n_r	706.52	1.89065
n_C	656.27	1.89526
$n_{C'}$	643.85	1.89657
n_{He-Ne}	632.80	1.89781
n_D	589.29	1.90341
n_d	587.56	1.90366
n_e	546.07	1.91048
n_F	486.13	1.92412
$n_{F'}$	479.99	1.92587
n_g	435.84	1.94128
n_h	404.66	1.95645
n_i	365.01	1.98472

Constants of Dispersion Formula	
A_0	3.48854243E+00
A_1	-1.59982726E-02
A_2	4.28443509E-02
A_3	2.18903241E-03
A_4	-1.15672643E-04
A_5	1.78697063E-05

Relative Partial Dispersions			
$P_{d,C}$	0.2911	$P'_{d,c'}$	0.2420
$P_{e,d}$	0.2363	$P'_{e,d}$	0.2328
$P_{g,F}$	0.5946	$P'_{g,F'}$	0.5259

Chemical Properties (grade)	
RC(S)	1
RA(S)	2
D_W	1
D_A	2
R_{OH}(S)	1
RP(S)	1

Thermal Properties	
Tg(℃)	660
Ts(℃)	698
$T_{10}^{14.5}$(℃)	595
T_{10}^{13}(℃)	643
$\alpha_{-50/80℃}$(10^{-7}/K)	66
$\alpha_{100/300℃}$(10^{-7}/K)	82

Mechanical Properties	
HK(10^7Pa)	640
F_A	80
E(10^7Pa)	11725
G(10^7Pa)	4501
μ	0.302
B(nm/cm/10^5Pa)	1.450

Density	
ρ (g/cm^3)	4.54

Deviation of Relative Partial Dispersions	
$\triangle P_{F,e}$	-0.0003
$\triangle P_{g,F}$	0.0030
$\triangle P_{C,t}$	0.0087
$\triangle P_{C,s}$	0.0033

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.904	0.817
2200	0.979	0.958
2000	0.998	0.996
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	0.996	0.994
500	0.990	0.984
480	0.984	0.977
460	0.977	0.969
440	0.968	0.954
420	0.950	0.927
400	0.914	0.859
390	0.874	0.784
380	0.790	0.635
370	0.591	0.348
360	0.229	0.053
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	2.4	3.4	3.5	3.8	4.2	5.3	6.6
-20 ~ 0	2.4	3.5	3.5	3.9	4.4	5.5	6.9
0 ~ 20	2.5	3.6	3.7	4.0	4.6	5.8	7.2
20 ~ 40	2.5	3.7	3.8	4.2	4.7	6.0	7.5
40 ~ 60	2.7	3.9	4.0	4.4	5.0	6.3	7.9
60 ~ 80	2.8	4.1	4.2	4.7	5.2	6.7	8.2

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(410)/360

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	387/361