

H-ZLaF3	855366	$n_d = 1.85544$	$v_d = 36.59$	$n_F - n_C = 0.023381$
		$n_e = 1.86099$	$v_e = 36.35$	$n_F - n_C = 0.023687$

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance		
	λ (nm)	n_λ					λ (nm)	τ_{5mm}	τ_{10mm}
n_{2325}	2325.42	1.80540	$P_{d,C}$	0.2943	RC (S)	1	2400	0.885	0.782
n_{1970}	1970.09	1.81252	$P_{e,d}$	0.2374	RA (S)	3	2200	0.970	0.940
n_{1530}	1529.58	1.82064	$P_{g,F}$	0.5795	D_W	1	2000	0.991	0.981
n_{1129}	1128.64	1.82866	$P'_{d,c}$	0.2449	D_A	3	1800	0.998	0.996
n_{1064}	1064.00	1.83025	$P'_{e,d}$	0.2343	$R_{OH}(S)$	1	1600	0.998	0.996
n_t	1013.98	1.83159	$P'_{g,F}$	0.5134	RP (S)	1	1400	0.998	0.996
n_s	852.11	1.83706			CR		1200	0.998	0.996
$n_{A'}$	768.19	1.84100	Deviation of Relative Partial Dispersions $\Delta P_{F,e}$ -0.0017 $\Delta P_{g,F}$ -0.0033 $\Delta P_{C,t}$ 0.0084 $\Delta P_{C,s}$ 0.0036		Expansion Coefficient $\alpha (\times 10^{-7}/K)$ $^{\circ}C$ α -50/-40 53 -40/-30 56 -30/-20 57 -20/-10 58 -10/0 59 0/10 60 10/20 61 20/30 61 30/40 62 40/50 62 50/60 63 60/70 63 70/80 64 80/90 65 90/100 66 100/110 67 110/120 68 120/130 69 130/140 70 140/150 71 150/160 72		1060	0.998	0.996
n_f	706.52	1.84474					1000	0.998	0.996
n_C	656.27	1.84856					950	0.998	0.996
$n_{C'}$	643.85	1.84964					900	0.998	0.996
n_{He-Ne}	632.80	1.85065					850	0.998	0.996
n_D	589.29	1.85524	800	0.998	0.996				
n_d	587.56	1.85544	750	0.998	0.996				
n_e	546.07	1.86099	700	0.998	0.996				
n_F	486.13	1.87194	650	0.998	0.996				
$n_{F'}$	479.99	1.87333	600	0.998	0.996				
n_g	435.84	1.88549	550	0.998	0.996				
n_h	404.66	1.89719	500	0.998	0.996				
n_i	365.01	1.91828	480	0.994	0.989				
			460	0.988	0.976				
			440	0.982	0.964				
			420	0.975	0.948				
			400	0.959	0.911				
			390	0.940	0.871				
			380	0.904	0.803				
			370	0.832	0.680				
			360	0.680	0.449				
			350	0.376	0.136				
			340						
			330						
			320						
			310						
			300						
			290						
			280						

Constants of Dispersion Formula	
A_0	3.33508086E+00
A_1	-1.51809916E-02
A_2	3.47880996E-02
A_3	1.57445974E-03
A_4	-7.28030297E-05
A_5	8.73416251E-06

Density	Solarization
ρ (g/cm ³)	4.59
	$\Delta\lambda$ (%)
	-0.4

Thermal Properties	
T_g (°C)	625
T_s (°C)	653
$T_{10}^{14.5}$ (°C)	557
T_{10}^{13} (°C)	591
$\alpha_{-50/80^{\circ}C}$ (10 ⁻⁷ /K)	60
$\alpha_{100/300^{\circ}C}$ (10 ⁻⁷ /K)	75
λ (W/(m K))	0.98

Mechanical Properties	
HK (10 ⁷ Pa)	622
F_A	77
E (GPa)	114.3
G (GPa)	43.7
μ	0.308
σ_b (MPa)	58
B (10 ⁻¹² /Pa)	1.90

Range of Temperature (°C)	Temperature Coefficients of Refractive Index									
	dn/dt relative ($\times 10^{-6} / ^{\circ}C$)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	4.6	5.2	5.6	5.6	5.7	5.9	6.4	7.1	7.1	7.9
-40 ~ -20	4.9	5.5	5.8	5.9	5.9	6.3	6.7	7.6	7.6	8.5
-20 ~ 0	5.4	5.9	6.2	6.3	6.4	6.6	7.1	8.0	8.0	9.1
0 ~ 20	5.6	6.1	6.5	6.6	6.7	7.0	7.4	8.4	8.4	9.5
20 ~ 40	5.8	6.4	6.8	6.8	6.9	7.3	7.7	8.6	8.6	9.9
40 ~ 60	5.9	6.6	7.0	7.0	7.1	7.5	7.8	8.9	8.9	10.1
60 ~ 80	6.1	6.7	7.2	7.2	7.3	7.6	8.2	9.3	9.3	10.4
80 ~ 100	6.4	6.9	7.3	7.3	7.4	7.9	8.4	9.5	9.5	10.7
100 ~ 120	6.6	7.1	7.5	7.5	7.6	8.1	8.6	9.7	9.7	10.9
120 ~ 140	6.8	7.3	7.7	7.7	7.8	8.3	8.8	9.9	9.9	11.2
140 ~ 160	6.9	7.4	7.8	7.9	8.0	8.5	9.0	10.1	10.1	11.4

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(390)/350
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	378/345

Constants of dn/dt		
D_0	D_1	D_2
5.56E-06	1.86E-08	-3.98E-11
E_0	E_1	λ_{TK}
7.03E-07	5.83E-10	2.68E-01