

H-ZLaF65	874306	$n_d = 1.87408$	$v_d = 30.55$	$n_F - n_C = 0.028610$
		$n_e = 1.88085$	$v_e = 30.34$	$n_{F'} - n_{C'} = 0.029035$

Refractive Indices		
	λ (nm)	n_λ
n_{2325}	2325.42	1.82063
n_{1970}	1970.09	1.82703
n_{1530}	1529.58	1.83463
n_{1129}	1128.64	1.84284
n_{1064}	1064.00	1.84457
n_t	1013.98	1.84606
n_s	852.11	1.85226
$n_{A'}$	768.19	1.85685
n_r	706.52	1.86126
n_C	656.27	1.86580
$n_{C'}$	643.85	1.86710
n_{He-Ne}	632.80	1.86830
n_D	589.29	1.87384
n_d	587.56	1.87408
n_e	546.07	1.88085
n_F	486.13	1.89441
$n_{F'}$	479.99	1.89614
n_g	435.84	1.91161
n_h	404.66	1.92693
n_i	365.01	1.95549

Constants of Dispersion Formula	
A_0	3.37787954E+00
A_1	-1.31762604E-02
A_2	4.34183952E-02
A_3	1.40530101E-03
A_4	2.38841484E-05
A_5	1.02947705E-05

Density	
ρ (g/cm ³)	4.55

Solarization	
$\Delta\lambda$ (%)	-0.7

Relative Partial Dispersion	
$P_{d,C}$	0.2894
$P_{e,d}$	0.2366
$P_{g,F}$	0.6012
$P'_{d,c'}$	0.2404
$P'_{e,d}$	0.2332
$P'_{g,F'}$	0.5328

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	0.0083
$\Delta P_{C,t}$	0.0018
$\Delta P_{C,s}$	-0.0005

Thermal Properties	
T _g (°C)	665
T _s (°C)	697
T ₁₀ ^{14.5} (°C)	625
T ₁₀ ¹³ (°C)	651
$\alpha_{50/80^\circ C}$ (10 ⁻⁷ /K)	82
$\alpha_{100/300^\circ C}$ (10 ⁻⁷ /K)	98
λ (W/(m·K))	0.67

Mechanical Properties	
HK (10 ⁷ Pa)	545
F _A	136
E (GPa)	124.8
G (GPa)	47.6
μ	0.310
σ_b (MPa)	
B (10 ⁻¹² /Pa)	1.28

Chemical Properties (grade)	
RC (S)	1
RA (S)	1
D _W	1
D _A	3
R _{OH} (S)	1
RP (S)	2

Expansion Coefficient α (×10 ⁻⁷ /K)	
°C	α
-50/-40	73
-40/-30	76
-30/-20	78
-20/-10	80
-10/0	81
0/10	82
10/20	83
20/30	84
30/40	85
40/50	85
50/60	86
60/70	86
70/80	87
80/90	88
90/100	89
100/110	90
110/120	92
120/130	92
130/140	93
140/150	94
150/160	95

Internal Transmittance		
λ (nm)	τ_{5mm}	τ_{10mm}
2400	0.928	0.861
2200	0.982	0.964
2000	0.997	0.994
1800	0.997	0.994
1600	0.997	0.994
1400	0.997	0.994
1200	0.997	0.994
1060	0.997	0.994
1000	0.997	0.994
950	0.997	0.994
900	0.997	0.994
850	0.997	0.994
800	0.997	0.994
750	0.997	0.994
700	0.997	0.994
650	0.997	0.994
600	0.995	0.990
550	0.993	0.985
500	0.985	0.967
480	0.979	0.956
460	0.973	0.943
440	0.964	0.926
420	0.944	0.892
400	0.896	0.805
390	0.846	0.718
380	0.750	0.568
370	0.555	0.316
360	0.213	0.051
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(410)/360
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	399/360

Range of Temperature (°C)	Temperature Coefficients of Refractive Index									
	dn/dt relative (×10 ⁻⁶ / °C)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	2.1	2.6	2.9	3.0	3.0	3.2	3.8	4.9	5.0	5.9
-40 ~ -20	2.1	2.6	3.0	3.1	3.1	3.4	3.8	5.0	5.1	6.1
-20 ~ 0	2.1	2.6	3.0	3.1	3.2	3.4	3.9	5.1	5.2	6.4
0 ~ 20	2.2	2.7	3.1	3.2	3.2	3.5	4.1	5.3	5.4	6.8
20 ~ 40	2.2	2.8	3.1	3.2	3.3	3.8	4.2	5.5	5.6	7.0
40 ~ 60	2.4	3.0	3.3	3.4	3.5	4.0	4.5	5.8	5.9	7.5
60 ~ 80	2.5	3.1	3.5	3.6	3.7	4.3	4.8	6.1	6.1	7.7
80 ~ 100	2.6	3.2	3.7	3.8	3.9	4.5	4.9	6.3	6.3	8.0
100 ~ 120	2.7	3.4	4.0	4.0	4.1	4.6	5.3	6.5	6.5	8.3
120 ~ 140	2.9	3.6	4.2	4.2	4.3	4.9	5.5	6.8	6.8	8.6
140 ~ 160	3.0	3.7	4.3	4.4	4.4	5.1	5.7	7.0	7.1	8.8

Constants of dn/dt		
D ₀	D ₁	D ₂
1.88E-08	1.25E-08	-1.43E-11
E ₀	E ₁	λ_{TK}
7.76E-07	7.48E-10	2.89E-01