

H-ZLaF1	802443	$n_d = 1.80166$	$v_d = 44.27$	$n_F - n_C = 0.018110$
		$n_e = 1.80596$	$v_e = 44.05$	$n_F - n_C' = 0.018298$

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance		
	λ (nm)	n_λ					λ (nm)	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
n_{2325}	2325.42	1.75717	$P_{d,C}$	0.2993	RC (S)	1	2400	0.803	0.645
n_{1970}	1970.09	1.76442	$P_{e,d}$	0.2374	RA (S)	1	2200	0.935	0.874
n_{1530}	1529.58	1.77245	$P_{g,F}$	0.5610	D_W	1	2000	0.990	0.980
n_{1129}	1128.64	1.77986	$P'_{d,c'}$	0.2492	D_A	3	1800	0.999	0.998
n_{1064}	1064.00	1.78125	$P'_{e,d}$	0.2350	$R_{OH}(S)$	1	1600	0.999	0.998
n_t	1013.98	1.78241	$P'_{g,F'}$	0.4979	RP (S)	1	1400	0.999	0.998
n_s	852.11	1.78700			CR		1200	0.999	0.998
$n_{A'}$	768.19	1.79021	Deviation of Relative Partial Dispersions		Expansion Coefficient $\alpha (\times 10^{-7}/K)$		1060	0.999	0.998
n_r	706.52	1.79321					1000	0.999	0.998
n_C	656.27	1.79624					950	0.999	0.998
$n_{C'}$	643.85	1.79710					900	0.999	0.998
n_{He-Ne}	632.80	1.79790					850	0.999	0.998
n_D	589.29	1.80150	ΔP_{Fe}	-0.0025	$^{\circ}C$	α	800	0.999	0.998
n_d	587.56	1.80166	$\Delta P_{g,F}$	-0.0091	-50/-40	48	750	0.999	0.998
n_e	546.07	1.80596	$\Delta P_{C,t}$	0.0090	-40/-30	50	700	0.999	0.998
n_F	486.13	1.81435	$\Delta P_{C,s}$	0.0036	-30/-20	50	650	0.999	0.998
$n_{F'}$	479.99	1.81540	Thermal Properties		-20/-10	52	600	0.999	0.998
n_g	435.84	1.82451	$T_g (^{\circ}C)$	658	-10/0	57	550	0.999	0.998
n_h	404.66	1.83312	$T_s (^{\circ}C)$	687	0/10	54	500	0.999	0.998
n_i	365.01	1.84826	$T_{10}^{14.5} (^{\circ}C)$	596	10/20	55	480	0.997	0.994
			$T_{10}^{13} (^{\circ}C)$	627	20/30	59	460	0.995	0.991
			$\alpha_{-50/80^{\circ}C} (10^{-7}/K)$	56	30/40	61	440	0.994	0.987
			$\alpha_{100/300^{\circ}C} (10^{-7}/K)$	74	40/50	58	420	0.990	0.981
			$\lambda (W/(m\ K))$	0.92	50/60	59	400	0.984	0.968
					60/70	61	390	0.976	0.953
					70/80	62	380	0.963	0.927
			Mechanical Properties		80/90	62	370	0.936	0.876
			HK ($10^7 Pa$)	681	90/100	64	360	0.881	0.776
			F_A	75	100/110	62	350	0.747	0.558
			E (GPa)	121.2	110/120	64	340	0.485	0.235
			G (GPa)	45.9	120/130	68	330	0.156	0.024
			μ	0.319	130/140	70	320		
			σ_b (MPa)	63	140/150	71	310		
			B ($10^{-12}/Pa$)	1.76	150/160	72	300		

Constants of Dispersion Formula	
A_0	3.16628243E+00
A_1	-1.54411440E-02
A_2	2.61007358E-02
A_3	1.37123320E-03
A_4	-1.09192053E-04
A_5	7.83345535E-06

Density		Solarization	
$\rho (g/cm^3)$	4.41	$\Delta\lambda$ (%)	-0.7

Range of Temperature ($^{\circ}C$)	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	5.0	5.3	5.3	5.4	5.6	5.7	6.4	6.5	7.0
-40 ~ -20	4.6	4.9	5.3	5.3	5.4	5.6	5.7	6.4	6.5	7.2
-20 ~ 0	4.7	4.9	5.3	5.3	5.4	5.7	5.8	6.5	6.5	7.4
0 ~ 20	4.7	4.9	5.3	5.4	5.4	5.8	6.0	6.6	6.6	7.4
20 ~ 40	4.8	4.9	5.4	5.5	5.5	5.8	6.1	6.7	6.7	7.5
40 ~ 60	4.8	5.0	5.5	5.6	5.7	6.0	6.3	6.8	6.9	7.7
60 ~ 80	5.0	5.2	5.7	5.8	5.9	6.3	6.5	7.0	7.1	7.9
80 ~ 100	5.0	5.4	5.9	6.0	6.1	6.4	6.6	7.2	7.2	8.1
100 ~ 120	5.0	5.5	6.1	6.2	6.3	6.6	6.8	7.3	7.4	8.2
120 ~ 140	5.1	5.6	6.2	6.4	6.4	6.7	7.0	7.4	7.5	8.4
140 ~ 160	5.1	5.6	6.3	6.5	6.6	6.9	7.2	7.5	7.6	8.6

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	390/340
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	363/334

Constants of dn/dt		
D_0	D_1	D_2
4.19E-06	1.23E-08	-1.53E-11
E_0	E_1	λ_{TK}
7.59E-07	5.64E-10	1.65E-01