

H-ZLaF54A	816466	$n_d = 1.81600$	$v_d = 46.55$	$n_F - n_C = 0.017528$
		$n_e = 1.82017$	$v_e = 46.33$	$n_F - n_{C'} = 0.017704$

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		$P_{d,C}$	0.3001	RC (S)	1	2400	0.867	0.751
n_{1970}	1970.09		$P_{e,d}$	0.2379	RA (S)	1	2200	0.965	0.931
n_{1530}	1529.58		$P_{g,F}$	0.5574	D_W	1	2000	0.986	0.972
n_{1129}	1128.64	1.79487	$P'_{d,c'}$	0.2497	D_A	3	1800	0.996	0.992
n_{1064}	1064.00	1.79619	$P'_{e,d}$	0.2355	$R_{OH}(S)$	1	1600	0.999	0.998
n_t	1013.98	1.79731	$P'_{g,F'}$	0.4942	RP (S)	1	1400	0.999	0.998
n_s	852.11	1.80175			CR		1200	0.999	0.998
$n_{A'}$	768.19	1.80488	Deviation of Relative Partial Dispersions		Expansion Coefficient $\alpha (\times 10^{-7}/K)$		1060	0.999	0.998
n_r	706.52	1.80779					1000	0.999	0.998
n_C	656.27	1.81074					950	0.999	0.998
$n_{C'}$	643.85	1.81158					900	0.999	0.998
n_{He-Ne}	632.80	1.81235					850	0.999	0.998
n_D	589.29	1.81585	ΔP_{Fe}	-0.0024	$^{\circ}C$	α	800	0.999	0.998
n_d	587.56	1.81600	$\Delta P_{g,F}$	-0.0089	-50/-40	57	750	0.999	0.998
n_e	546.07	1.82017	$\Delta P_{C,t}$	0.0005	-40/-30	58	700	0.999	0.998
n_F	486.13	1.82827	$\Delta P_{C,s}$	0.0008	-30/-20	60	650	0.999	0.998
$n_{F'}$	479.99	1.82929	Thermal Properties		-20/-10	61	600	0.999	0.998
n_g	435.84	1.83804	$T_g (^{\circ}C)$	718	-10/0	62	550	0.999	0.998
n_h	404.66	1.84625	$T_s (^{\circ}C)$	744	0/10	63	500	0.998	0.997
n_i	365.01	1.86049	$T_{10}^{14.5} (^{\circ}C)$	646	10/20	63	480	0.997	0.995
			$T_{10}^{13} (^{\circ}C)$	666	20/30	63	460	0.996	0.992
			$\alpha_{-50/80^{\circ}C} (10^{-7}/K)$	61	30/40	63	440	0.994	0.988
			$\alpha_{100/300^{\circ}C} (10^{-7}/K)$	76	40/50	64	420	0.991	0.982
			$\lambda (W/(m\ K))$	0.83	50/60	64	400	0.985	0.971
					60/70	67	390	0.980	0.961
					70/80	67	380	0.971	0.942
			Mechanical Properties		80/90	69	370	0.953	0.908
			$HK (10^7 Pa)$	693	90/100	69	360	0.920	0.846
			F_A	71	100/110	69	350	0.847	0.718
			$E (GPa)$	123.0	110/120	70	340	0.701	0.491
			$G (GPa)$	47.4	120/130	70	330	0.432	0.186
			μ	0.298	130/140	73	320	0.137	0.019
			$\sigma_b (MPa)$		140/150	74	310		
			$B (10^{-12}/Pa)$	1.12	150/160	75	300		

Constants of Dispersion Formula	
A_0	3.21683817E+00
A_1	-1.36724876E-02
A_2	2.76347913E-02
A_3	7.16568289E-04
A_4	-1.97668563E-05
A_5	2.19878744E-06

Density		Solarization	
$\rho (g/cm^3)$	4.99	$\Delta\lambda (\%)$	-0.3

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	2.1	2.4	2.8	3.0	3.1	3.3	3.6	3.9	4.0	4.5
-40 ~ -20	2.2	2.4	2.8	3.1	3.2	3.5	3.8	4.0	4.1	4.7
-20 ~ 0	2.2	2.4	2.9	3.1	3.3	3.6	3.9	4.1	4.2	5.0
0 ~ 20	2.3	2.5	3.0	3.2	3.4	3.8	4.1	4.2	4.4	5.1
20 ~ 40	2.3	2.6	3.1	3.3	3.5	4.0	4.2	4.4	4.6	5.3
40 ~ 60	2.4	2.8	3.3	3.5	3.7	4.2	4.4	4.6	4.7	5.6
60 ~ 80	2.4	2.9	3.4	3.6	3.9	4.4	4.6	4.8	4.9	5.8
80 ~ 100	2.4	3.0	3.6	3.8	4.1	4.6	4.7	5.0	5.1	6.0
100 ~ 120	2.6	3.2	3.8	4.0	4.2	4.8	4.9	5.2	5.3	6.3
120 ~ 140	2.8	3.3	4.1	4.2	4.4	5.0	5.1	5.4	5.5	6.6
140 ~ 160	2.9	3.4	4.3	4.4	4.5	5.1	5.3	5.5	5.7	6.8

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	385/325
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	355/322

Constants of dn/dt		
D_0	D_1	D_2
1.25E-07	1.24E-08	-1.76E-11
E_0	E_1	λ_{TK}
9.91E-07	1.10E-09	6.42E-09