

H-ZLaF51A	805396	n _d = 1.80450	v _d = 39.62	n _F − n _C = 0.020304
		n _e = 1.80932	v _e = 39.37	n _F − n _{C'} = 0.020555

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance		
	λ (nm)	n _λ					λ (nm)	τ5mm	τ10mm
n ₂₃₂₅	2325.42	1.75819	P _{d,C}	0.2965	RC (S)	1	2400	0.810	0.656
n ₁₉₇₀	1970.09	1.76514	P _{e,d}	0.2373	RA (S)	2	2200	0.933	0.870
n ₁₅₃₀	1529.58	1.77300	P _{g,F}	0.5731	D _W	1	2000	0.972	0.944
n ₁₁₂₉	1128.64	1.78059	P' _{d,c'}	0.2468	D _A	3	1800	0.990	0.980
n ₁₀₆₄	1064.00	1.78207	P' _{e,d}	0.2344	R _{OH} (S)	1	1600	0.996	0.992
n _t	1013.98	1.78331	P' _{g,F'}	0.5077	RP (S)	1	1400	0.995	0.990
n _s	852.11	1.78828			CR		1200	0.999	0.998
n _{A'}	768.19	1.79181	Deviation of Relative Partial Dispersions		Expansion Coefficient α (×10 ⁻⁷ /K)		1060	0.999	0.998
n _r	706.52	1.79512					1000	0.999	0.998
n _C	656.27	1.79848					950	0.999	0.998
n _{C'}	643.85	1.79943					900	0.999	0.998
n _{He-Ne}	632.80	1.80032	P _{F,e}	-0.0022	°C	α	850	0.999	0.998
n _D	589.29	1.80432	P _{g,F}	-0.0047	-50/-40	54	800	0.999	0.998
n _d	587.56	1.80450	P _{C,t}	0.0151	-40/-30	55	750	0.999	0.998
n _e	546.07	1.80932	P _{C,s}	0.0069	-30/-20	55	700	0.999	0.998
n _F	486.13	1.81878	Thermal Properties		-20/-10	55	650	0.999	0.998
n _{F'}	479.99	1.81998			-10/0	56	600	0.999	0.998
n _g	435.84	1.83042			0/10	58	550	0.998	0.997
n _h	404.66	1.84042			10/20	58	500	0.997	0.993
n _i	365.01	1.85828	T _g (°C)	598	20/30	60	480	0.996	0.991
			T _s (°C)	639	30/40	61	460	0.993	0.986
			T ₁₀ ^{14.5} (°C)	537	40/50	62	440	0.991	0.981
			T ₁₀ ¹³ (°C)	572	50/60	63	420	0.985	0.970
			α _{-50/80°C} (10 ⁻⁷ /K)	59	60/70	64	400	0.976	0.953
			α _{100/300°C} (10 ⁻⁷ /K)	75	70/80	65	390	0.964	0.929
			λ (W/(m·K))	0.95	80/90	66	380	0.941	0.885
					90/100	67	370	0.877	0.770
			Mechanical Properties		100/110	68	360	0.774	0.599
					110/120	69	350	0.509	0.259
					120/130	70	340	0.170	0.029
					130/140	71	330		
			μ	0.307	140/150	73	320		
			σ _b (MPa)	100	150/160	73	310		
			B (10 ⁻¹² /Pa)	1.86			300		

Constants of Dispersion Formula	
A ₀	3.16404838E+00
A ₁	-1.45380356E-02
A ₂	3.12370776E-02
A ₃	7.28139985E-04
A ₄	1.72607758E-05
A ₅	2.62079760E-06

Density		Solarization	
ρ (g/cm ³)	4.24	△λ (%)	-0.5

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	3.5	3.7	4.2	4.2	4.3	4.5	4.8	5.4	5.5	6.3
-40 ~ -20	3.6	3.8	4.3	4.4	4.4	4.7	5.0	5.6	5.7	6.6
-20 ~ 0	3.8	4.0	4.5	4.6	4.6	4.9	5.2	5.9	6.0	6.8
0 ~ 20	4.0	4.2	4.8	4.8	4.9	5.1	5.5	6.1	6.2	7.1
20 ~ 40	4.3	4.5	5.0	5.1	5.1	5.4	5.7	6.4	6.5	7.4
40 ~ 60	4.5	4.7	5.3	5.3	5.4	5.7	6.0	6.7	6.8	7.7
60 ~ 80	4.7	4.9	5.5	5.6	5.6	5.9	6.3	7.0	7.1	8.0
80 ~ 100	4.9	5.2	5.7	5.8	5.9	6.2	6.5	7.2	7.3	8.3
100 ~ 120	5.1	5.3	5.9	6.0	6.1	6.4	6.7	7.5	7.6	8.6
120 ~ 140	5.3	5.5	6.1	6.2	6.2	6.5	6.9	7.7	7.8	8.8
140 ~ 160	5.4	5.6	6.3	6.3	6.4	6.7	7.1	7.9	8.0	9.0

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	405/345
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	372/341

Constants of dn/dt		
D ₀	D ₁	D ₂
3.46E-06	1.84E-08	-2.91E-11
E ₀	E ₁	λ_{TK}
6.36E-07	3.69E-10	2.59E-01