

H-LaF1	694492	$n_d = 1.69362$	$v_d = 49.20$	$n_F - n_C = 0.014099$
		$n_e = 1.69696$	$v_e = 48.85$	$n_F - n_C = 0.014266$

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance						
	λ (nm)	n_λ					λ (nm)	τ_{5mm}	τ_{10mm}				
n_{2325}	2325.42	1.65990	$P_{d,C}$	0.2986	RC (S)	1	2400	0.922	0.850				
n_{1970}	1970.09	1.66516	$P_{e,d}$	0.2369	RA (S)	3	2200	0.976	0.953				
n_{1530}	1529.58	1.67106	$P_{g,F}$	0.5603	D_W	1	2000	0.990	0.980				
n_{1129}	1128.64	1.67666	$P'_{d,c}$	0.2488	D_A	3	1800	0.999	0.998				
n_{1064}	1064.00	1.67773	$P'_{e,d}$	0.2341	$R_{OH}(S)$	1	1600	0.999	0.998				
n_t	1013.98	1.67863	$P'_{g,F}$	0.4963	RP (S)	2	1400	0.999	0.998				
n_s	852.11	1.68220			CR	2	1200	0.999	0.998				
$n_{A'}$	768.19	1.68471	Deviation of Relative Partial Dispersions		Expansion Coefficient α ($\times 10^{-7}/K$)		1060	0.999	0.998				
n_f	706.52	1.68705					$\Delta P_{F,e}$	0.0015	$^{\circ}C$	α	1000	0.999	0.998
n_C	656.27	1.68941					$\Delta P_{g,F}$	-0.0016	-50/-40	65	950	0.999	0.998
$n_{C'}$	643.85	1.69007					$\Delta P_{C,t}$	-0.0139	-40/-30	68	900	0.999	0.998
n_{He-Ne}	632.80	1.69070					$\Delta P_{C,s}$	-0.0071	-30/-20	70	850	0.999	0.998
n_D	589.29	1.69350	Thermal Properties				800	0.999	0.998				
n_d	587.56	1.69362					T_g ($^{\circ}C$)	663	-20/-10	71	750	0.999	0.998
n_e	546.07	1.69696					T_s ($^{\circ}C$)	699	-10/0	72	700	0.999	0.998
n_F	486.13	1.70351					$T_{10}^{14.5}$ ($^{\circ}C$)	603	0/10	73	650	0.999	0.998
$n_{F'}$	479.99	1.70433					T_{10}^{13} ($^{\circ}C$)	640	10/20	73	600	0.999	0.998
n_g	435.84	1.71141	$\alpha_{-50/80^{\circ}C}$ ($10^{-7}/K$)	74	20/30	75	550	0.999	0.998				
n_h	404.66	1.71805	$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	87	30/40	76	500	0.999	0.998				
n_i	365.01	1.72957	λ (W/(m K))	0.87	40/50	76	480	0.997	0.994				
					50/60	77	460	0.995	0.990				
					60/70	78	440	0.992	0.986				
					70/80	78	420	0.987	0.982				
					80/90	79	400	0.981	0.971				
					90/100	80	390	0.974	0.957				
					100/110	80	380	0.961	0.931				
					E (GPa)	91.9	370	0.932	0.876				
					G (GPa)	36.0	360	0.866	0.759				
					μ	0.277	350	0.716	0.521				
					σ_b (MPa)	74	340	0.409	0.174				
					B ($10^{-12}/Pa$)	1.70	330	0.078	0.010				
							320						
							310						
							300						
							290						
							280						

Constants of Dispersion Formula	
A_0	2.80794251E+00
A_1	-1.04533648E-02
A_2	2.07773005E-02
A_3	4.06086547E-04
A_4	1.98268226E-05
A_5	-7.40077504E-07

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
3.97	-0.5

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	1.3	1.6	1.8	1.8	1.9	2.0	2.2	2.6	2.7	3.2
-40 ~ -20	1.3	1.7	1.9	1.9	1.9	2.0	2.2	2.6	2.7	3.2
-20 ~ 0	1.3	1.6	1.9	1.9	1.9	2.1	2.3	2.7	2.8	3.3
0 ~ 20	1.3	1.7	1.9	1.9	1.9	2.1	2.3	2.7	2.8	3.3
20 ~ 40	1.3	1.8	2.0	2.0	2.0	2.1	2.4	2.7	2.8	3.5
40 ~ 60	1.4	1.8	2.1	2.1	2.1	2.1	2.4	2.8	2.9	3.5
60 ~ 80	1.5	1.9	2.1	2.1	2.1	2.3	2.5	3.0	3.1	3.6
80 ~ 100	1.5	1.9	2.1	2.2	2.2	2.3	2.6	3.1	3.3	3.7
100 ~ 120	1.5	1.9	2.1	2.2	2.2	2.3	2.7	3.2	3.4	3.8
120 ~ 140	1.6	2.0	2.1	2.2	2.3	2.4	2.8	3.3	3.4	3.9
140 ~ 160	1.7	2.1	2.2	2.3	2.4	2.6	3.0	3.5	3.6	4.0

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/330
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	363/334

Constants of dn/dt		
D_0	D_1	D_2
-7.87E-07	1.19E-08	-2.18E-11
E_0	E_1	λ_{TK}
5.08E-07	3.70E-10	2.42E-01