

H-LaF10A		788475		$n_d = 1.78800$		$v_d = 47.49$		$n_F - n_C = 0.016592$					
				$n_e = 1.79195$		$v_e = 47.26$		$n_{F'} - n_{C'} = 0.016758$					
Refractive Indices				Relative Partial Dispersion		Chemical Properties (grade)			Internal Transmittance				
	λ (nm)	n_λ		$P_{d,C}$	0.3014	RC (S)	1		λ (nm)	τ_{5mm}	τ_{10mm}		
n_{2325}	2325.42	1.74466		$P_{e,d}$	0.2381	RA (S)	3		2400	0.787	0.620		
n_{1970}	1970.09	1.75204		$P_{g,F}$	0.5539	D_W	1		2200	0.927	0.859		
n_{1530}	1529.58	1.76016		$P'_{d,c'}$	0.2512	D_A	3		2000	0.976	0.953		
n_{1129}	1128.64	1.76750		$P'_{e,d}$	0.2357	R_{OH} (S)	1		1800	0.991	0.982		
n_{1064}	1064.00	1.76885		$P'_{g,F'}$	0.4911	RP (S)	1		1600	0.999	0.998		
n_t	1013.98	1.76996		Deviation of Relative Partial Dispersions		Expansion Coefficient α ($\times 10^{-7}/K$)			1400	0.999	0.998		
n_s	852.11	1.77435							$\Delta P_{F,e}$	-0.0035	$^\circ C$	α	1200
$n_{A'}$	768.19	1.77738		$\Delta P_{g,F}$	-0.0108	-50/-40	55	1060	0.999	0.998			
n_r	706.52	1.78018		$\Delta P_{C,t}$	0.0157	-40/-30	57	1000	0.999	0.998			
n_C	656.27	1.78300		$\Delta P_{C,s}$	0.0070	-30/-20	59	950	0.999	0.998			
$n_{C'}$	643.85	1.78379		Thermal Properties		-20/-10	60	900	0.999	0.998			
n_{He-Ne}	632.80	1.78453				Tg ($^\circ C$)	688	-10/0	61	850	0.999	0.998	
n_D	589.29	1.78785		Ts ($^\circ C$)	709	0/10	61	800	0.999	0.998			
n_d	587.56	1.78800		$T_{10}^{14.5}$ ($^\circ C$)	617	10/20	62	750	0.999	0.998			
n_e	546.07	1.79195		T_{10}^{13} ($^\circ C$)	645	20/30	63	700	0.999	0.998			
n_F	486.13	1.79959		$\alpha_{.50/80^\circ C}$ ($10^{-7}/K$)	59	30/40	63	650	0.999	0.998			
$n_{F'}$	479.99	1.80055		$\alpha_{100/300^\circ C}$ ($10^{-7}/K$)	73	40/50	64	600	0.999	0.998			
n_g	435.84	1.80878		λ (W/(m·K))	1.00	50/60	64	550	0.999	0.998			
n_h	404.66	1.81649		Mechanical Properties		60/70	65	500	0.999	0.998			
n_i	365.01	1.82981				70/80	65	400	0.990	0.982			
Constants of Dispersion Formula				Thermal Properties		80/90	66	390	0.982	0.972			
A_0	3.12424071E+00					HK ($10^7 Pa$)	718	90/100	67	380	0.973	0.955	
A_1	-1.57101635E-02			F_A	97	100/110	68	370	0.958	0.927			
A_2	2.44837290E-02			E (GPa)	123.4	110/120	69	360	0.936	0.882			
A_3	1.02164022E-03			G (GPa)	46.9	120/130	69	350	0.892	0.803			
A_4	-7.05302601E-05			μ	0.315	130/140	70	340	0.818	0.677			
A_5	4.58907154E-06			σ_b (MPa)	90	140/150	71	330	0.678	0.468			
Density		Solarization		B ($10^{-12}/Pa$)	1.35	150/160	72	320	0.413	0.178			
ρ (g/cm ³)	4.28		$\Delta\lambda$ (%)	-3.1					310	0.091	0.012		
Range of Temperature ($^\circ C$)		Temperature Coefficients of Refractive Index									Coloration Code		
		dn/dt relative ($\times 10^{-6} / ^\circ C$)									$\lambda_{80}(\lambda_{70})/\lambda_5$ 380/315		
	t	s	C	C'	He-Ne	d	e	F	F'	g	Coloration of Internal Transmittance		
-60~-40	3.8	4.1	4.5	4.5	4.5	4.8	5.1	5.5	5.6	6.0	$\lambda\tau_{80}/\lambda\tau_5$ 347/314		
-40~-20	3.9	4.2	4.5	4.5	4.6	4.8	5.1	5.6	5.7	6.1	Constants of dn/dt		
-20~0	3.9	4.3	4.5	4.5	4.6	4.8	5.1	5.7	5.7	6.2			
0~20	3.9	4.3	4.5	4.5	4.6	4.8	5.2	5.7	5.8	6.2	D_0	D_1	D_2
20~40	4.0	4.3	4.5	4.6	4.7	5.0	5.2	5.8	5.8	6.3	3.30E-06	1.21E-08	-1.61E-11
40~60	4.0	4.5	4.7	4.7	4.8	5.0	5.3	5.9	6.0	6.5	E_0	E_1	λ_{TK}
60~80	4.2	4.6	4.8	4.8	5.0	5.2	5.5	6.1	6.2	6.7	5.85E-07	4.50E-10	2.21E-01
80~100	4.3	4.7	5.0	5.0	5.2	5.4	5.6	6.4	6.4	6.9			
100~120	4.4	4.8	5.1	5.1	5.3	5.5	5.7	6.5	6.5	7.1			
120~140	4.5	4.9	5.2	5.2	5.4	5.6	5.8	6.6	6.6	7.3			
140~160	4.6	5.0	5.3	5.3	5.5	5.7	5.9	6.7	6.8	7.4			