

<b>D-LaF50</b>	<b>773495</b>	$n_d = 1.77250$	$v_d = 49.50$	$n_F - n_C = 0.015605$
		$n_e = 1.77622$	$v_e = 49.26$	$n_F - n_C = 0.015757$

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance						
	$\lambda$ (nm)	$n_\lambda$					$\lambda$ (nm)	$\tau_{5mm}$	$\tau_{10mm}$				
$n_{2325}$	2325.42	1.73130	$P_{d,C}$	0.3018	RC (S)	1	2400	0.820	0.674				
$n_{1970}$	1970.09	1.73834	$P_{e,d}$	0.2384	RA (S)	3	2200	0.955	0.914				
$n_{1530}$	1529.58	1.74608	$P_{g,F}$	0.5537	$D_W$	1	2000	0.989	0.978				
$n_{1129}$	1128.64	1.75309	$P'_{d,c}$	0.2513	$D_A$	3	1800	0.997	0.994				
$n_{1064}$	1064.00	1.75438	$P'_{e,d}$	0.2361	$R_{OH}(S)$	1	1600	0.999	0.998				
$n_t$	1013.98	1.75545	$P'_{g,F}$	0.4912	RP (S)	2	1400	0.999	0.998				
$n_s$	852.11	1.75961			CR		1200	0.999	0.998				
$n_{A'}$	768.19	1.76248	<b>Deviation of Relative Partial Dispersions</b>		<b>Expansion Coefficient <math>\alpha</math> (<math>\times 10^{-7}/K</math>)</b>		1060	0.999	0.998				
$n_f$	706.52	1.76513					$\Delta P_{F,e}$	-0.0028	$^{\circ}C$	$\alpha$	1000	0.999	0.998
$n_C$	656.27	1.76779					$\Delta P_{g,F}$	-0.0077	-50/-40	58	950	0.999	0.998
$n_{C'}$	643.85	1.76854					$\Delta P_{C,t}$	0.0108	-40/-30	60	900	0.999	0.998
$n_{He-Ne}$	632.80	1.76923					$\Delta P_{C,s}$	0.0050	-30/-20	61	850	0.999	0.998
$n_D$	589.29	1.77236	<b>Thermal Properties</b>		-20/-10	62	800	0.999	0.998				
$n_d$	587.56	1.77250			$T_g$ ( $^{\circ}C$ )	633	0/10	63	750	0.999	0.998		
$n_e$	546.07	1.77622			$T_s$ ( $^{\circ}C$ )	659	10/20	64	700	0.999	0.998		
$n_F$	486.13	1.78340			$T_{10}^{14.5}$ ( $^{\circ}C$ )	583	20/30	64	650	0.999	0.998		
$n_{F'}$	479.99	1.78430			$T_{10}^{13}$ ( $^{\circ}C$ )	617	30/40	64	600	0.999	0.998		
$n_g$	435.84	1.79204	$\alpha_{-50/80^{\circ}C}$ ( $10^{-7}/K$ )	65	40/50	65	550	0.999	0.998				
$n_h$	404.66	1.79927	$\alpha_{100/300^{\circ}C}$ ( $10^{-7}/K$ )	75	50/60	65	500	0.999	0.998				
$n_i$	365.01	1.81174	$\lambda$ (W/(m K))	0.75	60/70	66	480	0.998	0.996				
			$\beta_d$	138	70/80	66	460	0.997	0.994				
			<b>Mechanical Properties</b>		80/90	67	440	0.996	0.992				
					$HK$ ( $10^7 Pa$ )	643	90/100	67	420	0.995	0.990		
					$F_A$	81	100/110	68	400	0.991	0.982		
					$E$ (GPa)	114.8	110/120	69	390	0.987	0.976		
					$G$ (GPa)	43.4	120/130	70	380	0.982	0.966		
			$\mu$	0.323	130/140	71	370	0.973	0.950				
			$\sigma_b$ (MPa)	88	140/150	72	360	0.952	0.920				
			$B$ ( $10^{-12}/Pa$ )	1.70	150/160	73	350	0.931	0.870				

Constants of Dispersion Formula	
$A_0$	3.07337625E+00
$A_1$	-1.48574785E-02
$A_2$	2.34948451E-02
$A_3$	7.16989975E-04
$A_4$	-3.03961557E-05
$A_5$	2.24464169E-06

Density	Solarization
$\rho$ ( $g/cm^3$ )	$\Delta\lambda$ (%)
4.62	-1.8

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	3.7	4.0	4.1	4.1	4.2	4.4	4.7	5.0	5.1	5.5
-40 ~ -20	3.8	4.0	4.2	4.2	4.3	4.5	4.9	5.2	5.3	5.7
-20 ~ 0	3.8	4.1	4.2	4.2	4.3	4.8	5.0	5.5	5.6	6.0
0 ~ 20	3.9	4.1	4.3	4.4	4.4	4.8	5.2	5.6	5.6	6.1
20 ~ 40	4.0	4.2	4.4	4.4	4.4	4.8	5.2	5.8	5.8	6.3
40 ~ 60	4.0	4.3	4.6	4.6	4.6	4.9	5.6	6.0	6.0	6.4
60 ~ 80	4.1	4.4	4.6	4.7	4.7	5.1	5.7	6.0	6.1	6.5
80 ~ 100	4.2	4.5	4.7	4.8	4.9	5.3	5.9	6.1	6.2	6.6
100 ~ 120	4.3	4.6	4.8	4.9	5.0	5.5	6.0	6.3	6.4	6.9
120 ~ 140	4.5	4.7	5.0	5.1	5.2	5.6	6.2	6.6	6.7	7.3
140 ~ 160	4.6	4.8	5.2	5.2	5.3	5.7	6.3	6.7	6.8	7.4

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/280
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	338/277

Constants of dn/dt		
$D_0$	$D_1$	$D_2$
3.11E-06	1.25E-08	-2.12E-11
$E_0$	$E_1$	$\lambda_{TK}$
6.29E-07	7.94E-10	1.96E-01