

<b>H-LaF2</b>		<b>717479</b>		$n_d = 1.71700$		$v_d = 47.89$		$n_F - n_C = 0.014972$						
				$n_e = 1.72056$		$v_e = 47.65$		$n_{F'} - n_{C'} = 0.015122$						
<b>Refractive Indices</b>				<b>Relative Partial Dispersion</b>		<b>Chemical Properties (grade)</b>				<b>Internal Transmittance</b>				
	$\lambda$ (nm)	$n_\lambda$		$P_{d,C}$	0.3006	RC (S)	1		$\lambda$ (nm)	$\tau_{5mm}$	$\tau_{10mm}$			
$n_{2325}$	2325.42	1.68162		$P_{e,d}$	0.2378	RA (S)	1		2400	0.904	0.817			
$n_{1970}$	1970.09	1.68709		$P_{g,F}$	0.5584	$D_W$	1		2200	0.966	0.933			
$n_{1530}$	1529.58	1.69323		$P'_{d,c'}$	0.2506	$D_A$	3		2000	0.990	0.980			
$n_{1129}$	1128.64	1.69906		$P'_{e,d}$	0.2354	$R_{OH}$ (S)	1		1800	0.999	0.998			
$n_{1064}$	1064.00	1.70018		$P'_{g,F'}$	0.4960	RP (S)	2		1600	0.999	0.998			
$n_t$	1013.98	1.70112		<b>Deviation of Relative Partial Dispersions</b>		<b>Expansion Coefficient</b> $\alpha$ ( $\times 10^{-7}/K$ )				1400	0.999	0.998		
$n_s$	852.11	1.70486								$\Delta P_{F,e}$	-0.0022	$^\circ C$	$\alpha$	1200
$n_{A'}$	768.19	1.70752		$\Delta P_{g,F}$	-0.0057	-50/-40	66	1060	0.999	0.998				
$n_r$	706.52	1.70999		$\Delta P_{C,t}$	-0.0121	-40/-30	69	1000	0.999	0.998				
$n_C$	656.27	1.71250		$\Delta P_{C,s}$	-0.0051	-30/-20	70	950	0.999	0.998				
$n_{C'}$	643.85	1.71321		<b>Thermal Properties</b>		-20/-10	71	900	0.999	0.998				
$n_{He-Ne}$	632.80	1.71387				Tg ( $^\circ C$ )	645	-10/0	72	850	0.999	0.998		
$n_D$	589.29	1.71685		Ts ( $^\circ C$ )	693	0/10	73	800	0.999	0.998				
$n_d$	587.56	1.71700		$T_{10}^{14.5}$ ( $^\circ C$ )	577	10/20	74	750	0.999	0.998				
$n_e$	546.07	1.72056		$T_{10}^{13}$ ( $^\circ C$ )	618	20/30	75	700	0.999	0.998				
$n_F$	486.13	1.72747		$\alpha_{50/80^\circ C}$ ( $10^{-7}/K$ )	73	30/40	75	650	0.999	0.998				
$n_{F'}$	479.99	1.72833		$\alpha_{100/300^\circ C}$ ( $10^{-7}/K$ )	87	40/50	76	600	0.999	0.998				
$n_g$	435.84	1.73583		$\lambda$ (W/(m·K))	0.77	50/60	77	550	0.999	0.998				
$n_h$	404.66	1.74287		<b>Mechanical Properties</b>		60/70	77	500	0.999	0.998				
$n_i$	365.01	1.75517				70/80	77	400	0.991	0.986				
<b>Constants of Dispersion Formula</b>				<b>Mechanical Properties</b>		80/90	76	480	0.999	0.998				
$A_0$	2.88352222E+00					HK ( $10^7 Pa$ )	516	90/100	77	460	0.999	0.998		
$A_1$	-1.10333797E-02			$F_A$	180	100/110	78	440	0.999	0.998				
$A_2$	2.14058991E-02			E (GPa)	95.4	110/120	79	420	0.998	0.996				
$A_3$	9.16188540E-04			G (GPa)	36.1	120/130	81	400	0.991	0.986				
$A_4$	-7.10356524E-05			$\mu$	0.320	130/140	82	390	0.988	0.978				
$A_5$	5.14524697E-06			$\sigma_b$ (MPa)	68	140/150	83	380	0.983	0.967				
<b>Density</b>		<b>Solarization</b>		B ( $10^{-12}/Pa$ )	1.49	150/160	84	370	0.972	0.947				
$\rho$ (g/cm <sup>3</sup> )	4.18		$\Delta\lambda$ (%)	-0.6										
											360	0.946	0.899	
											350	0.890	0.799	
											340	0.767	0.591	
											330	0.508	0.258	
											320	0.184	0.033	
											310			
											300			
											290			
											280			
											<b>Coloration Code</b>			
											$\lambda_{80}(\lambda_{70})/\lambda_5$		370/320	
											<b>Coloration of Internal Transmittance</b>			
											$\lambda\tau_{80}/\lambda\tau_5$		350/323	
											<b>Constants of dn/dt</b>			
											$D_0$	$D_1$	$D_2$	
											-1.08E-06	1.10E-08	-1.36E-11	
											$E_0$	$E_1$	$\lambda_{TK}$	
											5.02E-07	3.02E-10	2.53E-01	
<b>Range of Temperature (°C)</b>		<b>Temperature Coefficients of Refractive Index</b>												
		<b>dn/dt relative (<math>\times 10^{-6} / ^\circ C</math>)</b>												
		t	s	C	C'	He-Ne	d	e	F	F'	g			
-60~-40		1.3	1.5	1.8	1.8	1.8	2.0	2.3	2.7	2.7	3.3			
-40~-20		1.3	1.5	1.8	1.8	1.8	2.0	2.3	2.7	2.7	3.3			
-20~0		1.3	1.5	1.8	1.8	1.8	2.0	2.3	2.7	2.7	3.3			
0~20		1.3	1.5	1.8	1.8	1.8	2.0	2.3	2.7	2.7	3.3			
20~40		1.3	1.5	1.8	1.8	1.8	2.0	2.3	2.7	2.7	3.3			
40~60		1.3	1.5	1.8	1.8	1.8	2.0	2.3	2.8	2.8	3.2			
60~80		1.4	1.6	1.8	1.8	1.9	2.1	2.4	2.9	3.0	3.5			
80~100		1.4	1.8	2.0	2.0	2.0	2.3	2.6	3.0	3.1	3.7			
100~120		1.4	1.9	2.1	2.1	2.1	2.4	2.7	3.1	3.2	3.9			
120~140		1.4	2.0	2.2	2.2	2.2	2.4	2.7	3.3	3.4	4.0			
140~160		1.5	2.2	2.3	2.3	2.3	2.5	2.8	3.4	3.5	4.2			