

<b>H-LaF2</b> <b>717479</b>	$n_d = 1.71700$	$\nu_d = 47.89$	$n_F - n_C = 0.014972$
	$n_e = 1.72056$	$\nu_e = 47.65$	$n_{F'} - n_{C'} = 0.015122$

Refractive Indices		
	$\lambda(\text{nm})$	$n_\lambda$
$n_{2325}$	2325.42	1.68162
$n_{1970}$	1970.09	1.68709
$n_{1530}$	1529.58	1.69323
$n_{1129}$	1128.64	1.69906
$n_t$	1013.98	1.70112
$n_s$	852.11	1.70486
$n_{A'}$	768.19	1.70752
$n_r$	706.52	1.70999
$n_C$	656.27	1.71250
$n_{C'}$	643.85	1.71321
$n_{\text{He-Ne}}$	632.80	1.71387
$n_D$	589.29	1.71685
$n_d$	587.56	1.71700
$n_e$	546.07	1.72056
$n_F$	486.13	1.72747
$n_{F'}$	479.99	1.72833
$n_g$	435.84	1.73583
$n_h$	404.66	1.74287
$n_i$	365.01	1.75517

Constants of Dispersion Formula	
$A_0$	2.88352222E+00
$A_1$	-1.10333797E-02
$A_2$	2.14058991E-02
$A_3$	9.16188540E-04
$A_4$	-7.10356524E-05
$A_5$	5.14524697E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3006	$P'_{d,C'}$	0.2507
$P_{e,d}$	0.2378	$P'_{e,d}$	0.2354
$P_{g,F}$	0.5585	$P'_{g,F'}$	0.4960

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative ( $10^{-6} / ^\circ\text{C}$ )						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	1.3	1.8	1.9	2.0	2.3	2.8	3.2
-20 ~ 0	1.2	1.8	1.8	2.0	2.2	2.7	3.3
0 ~ 20	1.2	1.8	1.8	2.0	2.2	2.7	3.3
20 ~ 40	1.1	1.7	1.8	2.0	2.2	2.7	3.3
40 ~ 60	1.2	1.8	1.8	2.0	2.3	2.8	3.4
60 ~ 80	1.3	1.9	2.0	2.2	2.4	3.0	3.6

Chemical Properties (grade)	
RC(S)	1
RA(S)	1
$D_W$	1
$D_A$	3
$R_{OH}(S)$	1
RP(S)	2

Thermal Properties	
$T_g(^\circ\text{C})$	626
$T_s(^\circ\text{C})$	681
$T_{10}^{14.5}(^\circ\text{C})$	577
$T_{10}^{13}(^\circ\text{C})$	618
$\alpha_{-50/80^\circ\text{C}}(10^{-7}/\text{K})$	73
$\alpha_{100/300^\circ\text{C}}(10^{-7}/\text{K})$	87

Mechanical Properties	
HK( $10^7\text{Pa}$ )	516
$F_A$	180
$E(10^7\text{Pa})$	9005
$G(10^7\text{Pa})$	3498
$\mu$	0.287
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	1.960

Density	
$\rho(\text{g}/\text{cm}^3)$	4.18

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0022
$\Delta P_{g,F}$	-0.0056
$\Delta P_{C,t}$	-0.0120
$\Delta P_{C,s}$	-0.0050

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.904	0.817
2200	0.966	0.933
2000	0.990	0.980
1800	0.999	0.998
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
750	0.999	0.998
700	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.999	0.998
480	0.999	0.998
460	0.999	0.998
440	0.999	0.998
420	0.998	0.996
400	0.996	0.992
390	0.993	0.987
380	0.985	0.975
370	0.967	0.949
360	0.940	0.895
350	0.881	0.787
340	0.746	0.566
330	0.465	0.221
320	0.115	0.017
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	370/320

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	350/323