

<b>H-ZLaF60      850323</b>	$n_d = 1.85026$	$v_d = 32.27$	$n_F - n_C = 0.026349$
	$n_e = 1.85649$	$v_e = 32.05$	$n_{F'} - n_{C'} = 0.026727$

Refractive Indices		
	$\lambda(\text{nm})$	$n_\lambda$
$n_{2325}$	2325.42	1.79843
$n_{1970}$	1970.09	1.80513
$n_{1530}$	1529.58	1.81293
$n_{1129}$	1128.64	1.82100
$n_t$	1013.98	1.82407
$n_s$	852.11	1.82993
$n_{A'}$	768.19	1.83424
$n_r$	706.52	1.83835
$n_C$	656.27	1.84259
$n_{C'}$	643.85	1.84379
$n_{\text{He-Ne}}$	632.80	1.84491
$n_D$	589.29	1.85003
$n_d$	587.56	1.85026
$n_e$	546.07	1.85649
$n_F$	486.13	1.86893
$n_{F'}$	479.99	1.87052
$n_g$	435.84	1.88450
$n_h$	404.66	1.89819
$n_i$	365.01	1.92348

Constants of Dispersion Formula	
$A_0$	3.30260921E+00
$A_1$	-1.39415408E-02
$A_2$	3.82606507E-02
$A_3$	1.95805494E-03
$A_4$	-1.07295242E-04
$A_5$	1.47824013E-05

Relative Partial Dispersions			
$P_{d,C}$	0.2912	$P'_{d,C'}$	0.2421
$P_{e,d}$	0.2365	$P'_{e,d}$	0.2331
$P_{g,F}$	0.5911	$P'_{g,F'}$	0.5230

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	3.2	4.1	4.2	4.5	5.0	6.0	7.1
-20 ~ 0	3.1	4.2	4.3	4.6	5.1	6.2	7.4
0 ~ 20	3.1	4.2	4.3	4.7	5.1	6.3	7.6
20 ~ 40	3.0	4.2	4.3	4.7	5.2	6.4	7.8
40 ~ 60	3.1	4.3	4.4	4.8	5.4	6.6	8.1
60 ~ 80	3.2	4.5	4.6	5.0	5.6	6.9	8.4

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

Thermal Properties	
$T_g(^\circ\text{C})$	601
$T_s(^\circ\text{C})$	660
$T_{10}^{14.5}(^\circ\text{C})$	569
$T_{10}^{13}(^\circ\text{C})$	591
$\alpha_{-50/80^\circ\text{C}}(10^{-7}/\text{K})$	73
$\alpha_{100/300^\circ\text{C}}(10^{-7}/\text{K})$	92

Mechanical Properties	
HK( $10^7\text{Pa}$ )	625
$F_A$	98
$E(10^7\text{Pa})$	10929
$G(10^7\text{Pa})$	4276
$\mu$	0.278
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	1.650

Density	
$\rho(\text{g}/\text{cm}^3)$	4.00

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	0.0011
$\Delta P_{C,t}$	0.0066
$\Delta P_{C,s}$	0.0028

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.942	0.882
2200	0.986	0.959
2000	0.993	0.985
1800	0.998	0.996
1600	0.998	0.996
1400	0.998	0.996
1200	0.998	0.996
1060	0.998	0.996
1000	0.998	0.996
900	0.998	0.996
850	0.998	0.996
800	0.998	0.996
750	0.998	0.996
700	0.998	0.996
650	0.998	0.996
600	0.998	0.996
550	0.996	0.994
500	0.993	0.989
480	0.989	0.983
460	0.985	0.974
440	0.979	0.960
420	0.963	0.929
400	0.935	0.877
390	0.904	0.820
380	0.849	0.726
370	0.733	0.541
360	0.476	0.231
350	0.110	0.019
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(400)/360

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	384/353