

<b>H-ZLaF72      911353</b>	$n_d = 1.91082$	$v_d = 35.25$	$n_F - n_C = 0.025839$
	$n_e = 1.91695$	$v_e = 35.01$	$n_{F'} - n_{C'} = 0.026194$

Refractive Indices		
	$\lambda(\text{nm})$	$n_\lambda$
$n_{2325}$	2325.42	1.85959
$n_{1970}$	1970.09	1.86612
$n_{1530}$	1529.58	1.87377
$n_{1129}$	1128.64	1.88177
$n_t$	1013.98	1.88484
$n_s$	852.11	1.89068
$n_{A'}$	768.19	1.89497
$n_r$	706.52	1.89905
$n_C$	656.27	1.90323
$n_{C'}$	643.85	1.90443
$n_{\text{He-Ne}}$	632.80	1.90554
$n_D$	589.29	1.91060
$n_d$	587.56	1.91082
$n_e$	546.07	1.91695
$n_F$	486.13	1.92907
$n_{F'}$	479.99	1.93062
$n_g$	435.84	1.94415
$n_h$	404.66	1.95720
$n_i$	365.01	1.98078

Constants of Dispersion Formula	
$A_0$	3.52587871E+00
$A_1$	-1.39436897E-02
$A_2$	4.09037520E-02
$A_3$	1.38553859E-03
$A_4$	-1.74895373E-05
$A_5$	6.86910964E-06

Relative Partial Dispersions			
$P_{d,C}$	0.2937	$P'_{d,C'}$	0.2440
$P_{e,d}$	0.2372	$P'_{e,d}$	0.2341
$P_{g,F}$	0.5836	$P'_{g,F'}$	0.5166

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	4.5	5.6	5.6	5.9	6.4	7.4	8.5
-20 ~ 0	4.5	5.6	5.7	6.1	6.5	7.6	8.8
0 ~ 20	4.6	5.7	5.8	6.2	6.7	7.8	9.0
20 ~ 40	4.6	5.8	5.9	6.2	6.7	7.9	9.1
40 ~ 60	4.7	5.9	5.9	6.3	6.8	8.0	9.3
60 ~ 80	4.8	6.0	6.1	6.5	7.0	8.3	9.6

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

Thermal Properties	
$T_g(^\circ\text{C})$	688
$T_s(^\circ\text{C})$	747
$T_{10}^{14.5}(^\circ\text{C})$	655
$T_{10}^{13}(^\circ\text{C})$	680
$\alpha_{-50/80^\circ\text{C}}(10^{-7}/\text{K})$	67
$\alpha_{100/300^\circ\text{C}}(10^{-7}/\text{K})$	83

Mechanical Properties	
HK( $10^7\text{Pa}$ )	663
$F_A$	74
$E(10^7\text{Pa})$	12687
$G(10^7\text{Pa})$	4872
$\mu$	0.302
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	1.160

Density	
$\rho(\text{g}/\text{cm}^3)$	4.88

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0017
$\Delta P_{g,F}$	-0.0015
$\Delta P_{C,t}$	0.0008
$\Delta P_{C,s}$	0.0007

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.931	0.867
2200	0.987	0.974
2000	0.997	0.994
1800	0.997	0.994
1600	0.997	0.994
1400	0.997	0.994
1200	0.997	0.994
1060	0.997	0.994
1000	0.997	0.994
900	0.997	0.994
850	0.997	0.994
800	0.997	0.994
750	0.997	0.994
700	0.997	0.994
650	0.997	0.994
600	0.997	0.994
550	0.992	0.987
500	0.983	0.969
480	0.980	0.960
460	0.974	0.948
440	0.966	0.931
420	0.955	0.904
400	0.921	0.837
390	0.886	0.773
380	0.828	0.673
370	0.721	0.510
360	0.517	0.261
350	0.205	0.041
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(400)/350

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	381/350