

H-ZLaF54 816466	$n_d = 1.81600$	$\nu_d = 46.55$	$n_F - n_C = 0.017528$
	$n_e = 1.82017$	$\nu_e = 46.33$	$n_{F'} - n_{C'} = 0.017704$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.77344
n_{1970}	1970.09	1.78023
n_{1530}	1529.58	1.78779
n_{1129}	1128.64	1.79484
n_t	1013.98	1.79729
n_s	852.11	1.80174
$n_{A'}$	768.19	1.80487
n_r	706.52	1.80780
n_C	656.27	1.81074
$n_{C'}$	643.85	1.81157
$n_{\text{He-Ne}}$	632.80	1.81235
n_D	589.29	1.81584
n_d	587.56	1.81600
n_e	546.07	1.82017
n_F	486.13	1.82827
$n_{F'}$	479.99	1.82928
n_g	435.84	1.83800
n_h	404.66	1.84618
n_i	365.01	1.86037

Constants of Dispersion Formula	
A_0	3.21873957E+00
A_1	-1.45164245E-02
A_2	2.60917155E-02
A_3	1.26701532E-03
A_4	-1.06020539E-04
A_5	6.86627719E-06

Relative Partial Dispersions			
$P_{d,C}$	0.3001	$P'_{d,C'}$	0.2501
$P_{e,d}$	0.2379	$P'_{e,d}$	0.2355
$P_{g,F}$	0.5550	$P'_{g,F'}$	0.4924

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	3.9	4.6	4.7	4.9	5.1	5.7	6.3
-20 ~ 0	3.9	4.6	4.7	4.9	5.2	5.8	6.4
0 ~ 20	3.9	4.7	4.7	4.9	5.2	5.8	6.5
20 ~ 40	3.9	4.7	4.7	5.0	5.2	5.9	6.5
40 ~ 60	4.0	4.8	4.8	5.0	5.3	6.0	6.7
60 ~ 80	4.2	4.9	5.0	5.2	5.5	6.2	6.9

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

Thermal Properties	
$T_g(^{\circ}\text{C})$	696
$T_s(^{\circ}\text{C})$	732
$T_{10}^{14.5}(^{\circ}\text{C})$	643
$T_{10}^{13}(^{\circ}\text{C})$	662
$\alpha_{-50/80^{\circ}\text{C}}(10^{-7}/\text{K})$	62
$\alpha_{100/300^{\circ}\text{C}}(10^{-7}/\text{K})$	75

Mechanical Properties	
HK(10^7Pa)	702
F_A	64
$E(10^7\text{Pa})$	11623
$G(10^7\text{Pa})$	4477
μ	0.298
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	1.300

Density	
$\rho(\text{g}/\text{cm}^3)$	5.04

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0112
$\Delta P_{C,t}$	0.0016
$\Delta P_{C,s}$	0.0013

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.888	0.789
2200	0.980	0.960
2000	0.992	0.984
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	0.998	0.996
440	0.997	0.994
420	0.995	0.991
400	0.993	0.983
390	0.988	0.974
380	0.981	0.959
370	0.968	0.934
360	0.946	0.892
350	0.911	0.828
340	0.860	0.736
330	0.787	0.616
320	0.691	0.473
310	0.510	0.259
300	0.403	0.158
290	0.222	0.048
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/290

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	342/291