

H-ZLaF55F 835427	$n_d = 1.83481$	$\nu_d = 42.72$	$n_F - n_C = 0.019541$
	$n_e = 1.83944$	$\nu_e = 42.49$	$n_{F'} - n_{C'} = 0.019757$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.79048
n_{1970}	1970.09	1.79707
n_{1530}	1529.58	1.80452
n_{1129}	1128.64	1.81175
n_t	1013.98	1.81435
n_s	852.11	1.81912
$n_{A'}$	768.19	1.82253
n_r	706.52	1.82573
n_C	656.27	1.82897
$n_{C'}$	643.85	1.82989
$n_{\text{He-Ne}}$	632.80	1.83076
n_D	589.29	1.83463
n_d	587.56	1.83481
n_e	546.07	1.83944
n_F	486.13	1.84851
$n_{F'}$	479.99	1.84965
n_g	435.84	1.85955
n_h	404.66	1.86893
n_i	365.01	1.88543

Constants of Dispersion Formula	
A_0	3.27602602E+00
A_1	-1.40174355E-02
A_2	3.01024097E-02
A_3	1.06953465E-03
A_4	-5.08713944E-05
A_5	5.04484426E-06

Relative Partial Dispersions			
$P_{d,C}$	0.2989	$P'_{d,C'}$	0.2490
$P_{e,d}$	0.2369	$P'_{e,d}$	0.2343
$P_{g,F}$	0.5650	$P'_{g,F'}$	0.5010

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	2.9	3.6	3.7	3.9	4.2	4.9	5.5
-20 ~ 0	2.9	3.6	3.7	3.9	4.2	4.9	5.6
0 ~ 20	2.8	3.6	3.6	3.9	4.2	4.9	5.7
20 ~ 40	2.7	3.5	3.6	3.8	4.2	4.9	5.7
40 ~ 60	2.7	3.6	3.6	3.9	4.3	5.0	5.8
60 ~ 80	2.9	3.7	3.8	4.1	4.4	5.2	6.0

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

Thermal Properties	
$T_g(^\circ\text{C})$	693
$T_s(^\circ\text{C})$	729
$T_{10}^{14.5}(^\circ\text{C})$	640
$T_{10}^{13}(^\circ\text{C})$	687
$\alpha_{-50/80^\circ\text{C}}(10^{-7}/\text{K})$	68
$\alpha_{100/300^\circ\text{C}}(10^{-7}/\text{K})$	84

Mechanical Properties	
HK(10^7Pa)	679
F_A	69
$E(10^7\text{Pa})$	11350
$G(10^7\text{Pa})$	4365
μ	0.300
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	1.300

Density	
$\rho(\text{g}/\text{cm}^3)$	4.66

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0076
$\Delta P_{C,t}$	0.0011
$\Delta P_{C,s}$	0.0012

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.903	0.808
2200	0.979	0.954
2000	0.993	0.985
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	0.997	0.994
460	0.995	0.990
440	0.992	0.984
420	0.987	0.972
400	0.981	0.957
390	0.974	0.938
380	0.961	0.911
370	0.934	0.866
360	0.897	0.801
350	0.829	0.681
340	0.726	0.522
330	0.544	0.290
320	0.250	0.065
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	400/320

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	359/320