

H-ZLaF80 001255	$n_d = 2.00069$	$v_d = 25.46$	$n_F - n_C = 0.039308$
	$n_e = 2.00996$	$v_e = 25.26$	$n_{F'} - n_{C'} = 0.039985$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.93290
n_{1970}	1970.09	1.94015
n_{1530}	1529.58	1.94903
n_{1129}	1128.64	1.95916
n_t	1013.98	1.96328
n_s	852.11	1.97139
$n_{A'}$	768.19	1.97747
n_r	706.52	1.98335
n_C	656.27	1.98944
$n_{C'}$	643.85	1.99119
$n_{\text{He-Ne}}$	632.80	1.99284
n_D	589.29	2.00035
n_d	587.56	2.00069
n_e	546.07	2.00996
n_F	486.13	2.02875
$n_{F'}$	479.99	2.03118
n_g	435.84	2.05296
n_h	404.66	2.07475
n_i	365.01	

Constants of Dispersion Formula	
A_0	3.80762148E+00
A_1	-1.53801657E-02
A_2	6.26758348E-02
A_3	1.57569502E-03
A_4	2.15980103E-04
A_5	6.30489693E-06

Relative Partial Dispersions			
$P_{d,C}$	0.2862	$P'_{d,C'}$	0.2376
$P_{e,d}$	0.2358	$P'_{e,d}$	0.2318
$P_{g,F}$	0.6159	$P'_{g,F'}$	0.5446

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative (10 ⁻⁶ / °C)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	1.7	3.1	3.2	3.7	4.3	6.0	7.9
-20 ~ 0	1.8	3.3	3.4	3.9	4.6	6.3	8.4
0 ~ 20	1.8	3.4	3.5	4.1	4.8	6.7	8.8
20 ~ 40	1.9	3.5	3.7	4.2	5.0	7.0	9.2
40 ~ 60	2.0	3.7	3.9	4.4	5.3	7.3	9.7
60 ~ 80	2.2	4.0	4.1	4.7	5.6	7.7	10.2

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 (°C)	685
T _s (°C)	732
T ₁₀ ^{14.5} (°C)	629
T ₁₀ ¹³ (°C)	675
$\alpha_{-50/80^\circ\text{C}}$ (10 ⁻⁷ /K)	73
$\alpha_{100/300^\circ\text{C}}$ (10 ⁻⁷ /K)	89

Mechanical Properties	
HK(10 ⁷ Pa)	630
F _A	78
E(10 ⁷ Pa)	11093
G(10 ⁷ Pa)	4263
μ	0.301
B(nm/cm/10 ⁵ Pa)	1.250

Density	
ρ (g/cm ³)	4.76

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0018
$\Delta P_{g,F}$	0.0146
$\Delta P_{C,t}$	0.0020
$\Delta P_{C,s}$	-0.0023

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.955	0.912
2200	0.983	0.966
2000	0.990	0.980
1800	0.995	0.990
1600	0.995	0.990
1400	0.995	0.990
1200	0.995	0.990
1060	0.995	0.990
1000	0.995	0.990
900	0.995	0.990
850	0.995	0.990
800	0.995	0.990
750	0.995	0.990
700	0.995	0.990
650	0.995	0.990
600	0.995	0.990
550	0.988	0.979
500	0.967	0.941
480	0.953	0.912
460	0.931	0.870
440	0.893	0.798
420	0.816	0.662
400	0.669	0.441
390	0.550	0.295
380	0.373	0.135
370	0.144	0.024
360		
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(460)/375

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	419/372