

<b>H-ZLaF57      800299</b>	$n_d = 1.80000$	$v_d = 29.84$	$n_F - n_C = 0.026806$
	$n_e = 1.80633$	$v_e = 29.62$	$n_{F'} - n_{C'} = 0.027224$

Refractive Indices		
	$\lambda(\text{nm})$	$n_\lambda$
$n_{2325}$	2325.42	1.74747
$n_{1970}$	1970.09	1.75431
$n_{1530}$	1529.58	1.76226
$n_{1129}$	1128.64	1.77044
$n_t$	1013.98	1.77354
$n_s$	852.11	1.77945
$n_{A'}$	768.19	1.78380
$n_r$	706.52	1.78795
$n_C$	656.27	1.79223
$n_{C'}$	643.85	1.79344
$n_{\text{He-Ne}}$	632.80	1.79459
$n_D$	589.29	1.79977
$n_d$	587.56	1.80000
$n_e$	546.07	1.80633
$n_F$	486.13	1.81903
$n_{F'}$	479.99	1.82067
$n_g$	435.84	1.83511
$n_h$	404.66	1.84939
$n_i$	365.01	1.87619

Constants of Dispersion Formula	
$A_0$	3.12168528E+00
$A_1$	-1.38673767E-02
$A_2$	3.73009678E-02
$A_3$	1.94247273E-03
$A_4$	-9.80256201E-05
$A_5$	1.64841569E-05

Relative Partial Dispersions			
$P_{d,C}$	0.2899	$P'_{d,C'}$	0.2409
$P_{e,d}$	0.2362	$P'_{e,d}$	0.2325
$P_{g,F}$	0.6000	$P'_{g,F'}$	0.5303

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	1.9	2.9	2.9	3.2	3.7	4.7	5.9
-20 ~ 0	1.8	2.9	3.0	3.3	3.7	4.8	6.1
0 ~ 20	1.9	3.0	3.0	3.4	3.9	5.0	6.3
20 ~ 40	1.9	3.0	3.1	3.5	4.0	5.2	6.6
40 ~ 60	2.0	3.2	3.2	3.6	4.1	5.4	6.9
60 ~ 80	2.1	3.3	3.4	3.8	4.4	5.7	7.2

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

Thermal Properties	
$T_g(^\circ\text{C})$	603
$T_s(^\circ\text{C})$	661
$T_{10}^{14.5}(^\circ\text{C})$	547
$T_{10}^{13}(^\circ\text{C})$	592
$\alpha_{-50/80^\circ\text{C}}(10^{-7}/\text{K})$	73
$\alpha_{100/300^\circ\text{C}}(10^{-7}/\text{K})$	89

Mechanical Properties	
HK( $10^7\text{Pa}$ )	543
$F_A$	167
$E(10^7\text{Pa})$	10605
$G(10^7\text{Pa})$	4175
$\mu$	0.270
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	2.500

Density	
$\rho(\text{g}/\text{cm}^3)$	3.73

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0002
$\Delta P_{g,F}$	0.0060
$\Delta P_{C,t}$	0.0127
$\Delta P_{C,s}$	0.0048

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.945	0.893
2200	0.983	0.966
2000	0.996	0.992
1800	0.996	0.992
1600	0.996	0.992
1400	0.996	0.992
1200	0.996	0.992
1060	0.996	0.992
1000	0.996	0.992
900	0.996	0.992
850	0.996	0.992
800	0.996	0.992
750	0.996	0.992
700	0.996	0.992
650	0.996	0.992
600	0.996	0.988
550	0.993	0.983
500	0.984	0.970
480	0.981	0.964
460	0.977	0.957
440	0.972	0.946
420	0.964	0.927
400	0.939	0.880
390	0.910	0.826
380	0.848	0.716
370	0.694	0.475
360	0.347	0.117
350	0.042	0.013
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	430/360

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	383/356