

<b>D-ZLaF50</b>	<b>801455</b>	$n_d = 1.80139$	$v_d = 45.45$	$n_F - n_C = 0.017632$
		$n_e = 1.80558$	$v_e = 45.21$	$n_{F'} - n_{C'} = 0.017820$

Refractive Indices		
	$\lambda$ (nm)	$n_\lambda$
$n_{2325}$	2325.42	1.75922
$n_{1970}$	1970.09	1.76581
$n_{1530}$	1529.58	1.77320
$n_{1129}$	1128.64	1.78019
$n_{1064}$	1064.00	1.78152
$n_t$	1013.98	1.78264
$n_s$	852.11	1.78708
$n_{A'}$	768.19	1.79022
$n_r$	706.52	1.79314
$n_C$	656.27	1.79610
$n_{C'}$	643.85	1.79694
$n_{He-Ne}$	632.80	1.79771
$n_D$	589.29	1.80122
$n_d$	587.56	1.80139
$n_e$	546.07	1.80558
$n_F$	486.13	1.81373
$n_{F'}$	479.99	1.81476
$n_g$	435.84	1.82361
$n_h$	404.66	1.83193
$n_i$	365.01	1.84640

Constants of Dispersion Formula	
$A_0$	3.16516554E+00
$A_1$	-1.39269813E-02
$A_2$	2.68932250E-02
$A_3$	8.75538542E-04
$A_4$	-3.52600431E-05
$A_5$	3.03103679E-06

Density	Solarization
$\rho$ (g/cm <sup>3</sup> )	$\Delta\lambda$ (%)
4.81	-0.5

Relative Partial Dispersion	
$P_{d,C}$	0.3000
$P_{e,d}$	0.2376
$P_{g,F}$	0.5603
$P'_{d,c'}$	0.2497
$P'_{e,d}$	0.2351
$P'_{g,F'}$	0.4966

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	-0.0029
$\Delta P_{g,F}$	-0.0078
$\Delta P_{C,t}$	0.0030
$\Delta P_{C,s}$	0.0021

Thermal Properties	
T <sub>g</sub> (°C)	599
T <sub>s</sub> (°C)	642
T <sub>10</sub> <sup>14.5</sup> (°C)	579
T <sub>10</sub> <sup>13</sup> (°C)	595
$\alpha_{50/80^\circ C}$ (10 <sup>-7</sup> /K)	62
$\alpha_{100/300^\circ C}$ (10 <sup>-7</sup> /K)	77
$\lambda$ (W/(m·K))	0.79
$\beta_d$	140

Mechanical Properties	
HK (10 <sup>7</sup> Pa)	651
F <sub>A</sub>	71
E (GPa)	121.1
G (GPa)	46.1
$\mu$	0.314
$\sigma_b$ (MPa)	105.5
B (10 <sup>-12</sup> /Pa)	1.74

Chemical Properties (grade)	
RC (S)	1
RA (S)	3
D <sub>w</sub>	1
D <sub>A</sub>	3
R <sub>OH</sub> (S)	1
RP (S)	1

Expansion Coefficient $\alpha$ (×10 <sup>-7</sup> /K)	
°C	$\alpha$
-50/-40	53
-40/-30	56
-30/-20	56
-20/-10	58
-10/0	61
0/10	61
10/20	62
20/30	63
30/40	65
40/50	66
50/60	66
60/70	67
70/80	69
80/90	69
90/100	69
100/110	69
110/120	70
120/130	70
130/140	72
140/150	73
150/160	75

Internal Transmittance		
$\lambda$ (nm)	$\tau_{5mm}$	$\tau_{10mm}$
2400	0.510	0.260
2200	0.866	0.750
2000	0.940	0.884
1800	0.983	0.966
1600	0.996	0.992
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	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	0.998	0.997
480	0.997	0.995
460	0.996	0.992
440	0.995	0.990
420	0.993	0.986
400	0.989	0.978
390	0.985	0.971
380	0.978	0.957
370	0.967	0.935
360	0.945	0.893
350	0.904	0.817
340	0.816	0.666
330	0.630	0.397
320	0.318	0.101
310	0.095	0.009
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	375/320
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	349/316

Range of Temperature (°C)	Temperature Coefficients of Refractive Index									
	dn/dt relative (×10 <sup>-6</sup> / °C)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	4.0	4.4	4.7	4.8	4.9	5.0	5.2	5.3	5.5	5.8
-40 ~ -20	4.2	4.6	4.8	4.9	5.0	5.2	5.4	5.5	5.6	6.0
-20 ~ 0	4.4	4.7	4.9	5.0	5.1	5.3	5.6	5.7	5.8	6.4
0 ~ 20	4.4	4.8	5.2	5.3	5.4	5.5	5.9	5.9	6.0	6.5
20 ~ 40	4.5	5.0	5.4	5.5	5.6	5.7	6.1	6.1	6.1	6.9
40 ~ 60	4.5	5.1	5.5	5.6	5.6	5.7	6.1	6.3	6.4	7.2
60 ~ 80	4.6	5.3	5.6	5.7	5.8	6.0	6.3	6.5	6.6	7.3
80 ~ 100	4.6	5.4	5.8	5.9	6.0	6.2	6.4	6.7	6.8	7.4
100 ~ 120	4.8	5.7	6.0	6.1	6.2	6.3	6.5	6.9	7.0	7.6
120 ~ 140	5.0	5.8	6.2	6.2	6.3	6.4	6.7	7.1	7.2	7.9
140 ~ 160	5.2	5.8	6.2	6.3	6.4	6.5	6.9	7.3	7.4	8.0

Constants of dn/dt		
D <sub>0</sub>	D <sub>1</sub>	D <sub>2</sub>
4.18E-06	1.42E-08	-2.67E-11
E <sub>0</sub>	E <sub>1</sub>	$\lambda_{TK}$
6.65E-07	9.25E-10	1.82E-08