

D-ZLaF52N-M170	808409	$n_d = 1.80834$	$v_d = 40.92$	$n_F - n_C = 0.019753$
		$n_e = 1.81303$	$v_e = 40.67$	$n_F - n_C = 0.019992$

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance		
	λ (nm)	n_λ					λ (nm)	τ_{5mm}	τ_{10mm}
n_{2325}	2325.42	1.76315	$P_{d,C}$	0.2972	RC (S)	1	2400	0.855	0.731
n_{1970}	1970.09	1.77000	$P_{e,d}$	0.2374	RA (S)	3	2200	0.968	0.937
n_{1530}	1529.58	1.77771	$P_{g,F}$	0.5670	D_W	1	2000	0.990	0.980
n_{1129}	1128.64	1.78511	$P'_{d,c'}$	0.2471	D_A	3	1800	0.999	0.998
n_{1064}	1064.00	1.78654	$P'_{e,d}$	0.2346	$R_{OH}(S)$	1	1600	0.999	0.998
n_t	1013.98	1.78774	$P'_{g,F'}$	0.5022	RP (S)	2	1400	0.999	0.998
n_s	852.11	1.79256			CR	1	1200	0.999	0.998
$n_{A'}$	768.19	1.79599	Deviation of Relative Partial Dispersions		Expansion Coefficient α ($\times 10^{-7}/K$)		1060	0.999	0.998
n_r	706.52	1.79921					ΔP_{Fe}	-0.0019	$^{\circ}C$
n_C	656.27	1.80247	$\Delta P_{g,F}$	-0.0086	-50/-40	51	950	0.999	0.998
$n_{C'}$	643.85	1.80340	$\Delta P_{C,t}$	0.0073	-40/-30	54	900	0.999	0.998
n_{He-Ne}	632.80	1.80427	$\Delta P_{C,s}$	0.0031	-30/-20	56	850	0.999	0.998
n_D	589.29	1.80817	Thermal Properties		-20/-10	58	800	0.999	0.998
n_d	587.56	1.80834	T_g ($^{\circ}C$)	548	-10/0	59	750	0.999	0.998
n_e	546.07	1.81303	T_s ($^{\circ}C$)	578	0/10	60	700	0.999	0.998
n_F	486.13	1.82223	$T_{10}^{14.5}$ ($^{\circ}C$)	510	10/20	61	650	0.999	0.998
$n_{F'}$	479.99	1.82339	T_{10}^{13} ($^{\circ}C$)	529	20/30	62	600	0.999	0.998
n_g	435.84	1.83343	$\alpha_{.50/80^{\circ}C}$ ($10^{-7}/K$)	60	30/40	63	550	0.999	0.998
n_h	404.66	1.84298	$\alpha_{100/300^{\circ}C}$ ($10^{-7}/K$)	79	40/50	64	500	0.998	0.996
n_i	365.01	1.85982	λ (W/(m K))	1.00	50/60	64	480	0.996	0.993
			β_d	140	60/70	64	460	0.994	0.990
			Mechanical Properties		70/80	65	440	0.992	0.986
Constants of Dispersion Formula			HK ($10^7 Pa$)	625	80/90	66	420	0.990	0.980
A_0	3.18131839E+00		F_A	91	90/100	67	400	0.982	0.967
A_1	-1.44359617E-02		E (GPa)	115.4	100/110	68	390	0.976	0.955
A_2	2.92512247E-02		G (GPa)	42.9	110/120	69	380	0.963	0.934
A_3	1.19876602E-03		μ	0.344	120/130	70	370	0.942	0.898
A_4	-5.70803235E-05		σ_b (MPa)	71	130/140	71	360	0.911	0.831
A_5	5.23040290E-06		B ($10^{-12}/Pa$)	2.17	140/150	72	350	0.834	0.701
Density					150/160	73	340	0.671	0.454
ρ (g/cm^3)	4.47		Solarization				330	0.372	0.136
			$\Delta\lambda$ (%)	-0.6			320		
							310		
							300		
							290		
							280		

Range of Temperature ($^{\circ}C$)	Temperature Coefficients of Refractive Index									
	dn/dt relative ($\times 10^{-6} / ^{\circ}C$)									
	t	s	C	C'	He-Ne	d	e	F	F'	g
-60 ~ -40	5.9	6.9	6.7	6.9	7.0	7.2	7.9	9.7	9.8	10.3
-40 ~ -20	5.9	7.0	7.1	7.2	7.3	7.6	8.3	10.1	10.1	10.5
-20 ~ 0	5.9	7.2	7.4	7.6	7.8	8.0	8.6	10.4	10.6	10.8
0 ~ 20	6.0	7.2	7.6	7.9	8.2	8.3	8.8	10.6	10.8	11.1
20 ~ 40	6.0	7.3	7.8	8.1	8.2	8.6	8.9	10.8	11.0	11.2
40 ~ 60	6.2	7.5	8.0	8.2	8.4	8.8	9.0	11.0	11.2	11.4
60 ~ 80	6.3	7.6	8.2	8.3	8.4	9.0	9.2	11.2	11.4	11.7
80 ~ 100	6.5	7.8	8.4	8.4	8.6	9.2	9.4	11.4	11.5	12.0
100 ~ 120	6.5	7.9	8.5	8.5	8.7	9.3	9.6	11.5	11.6	12.3
120 ~ 140	6.7	8.1	8.6	8.6	8.9	9.3	9.7	11.6	11.7	12.6
140 ~ 160	6.7	8.2	8.6	8.6	9.2	9.4	9.8	11.7	11.9	12.9

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	390/330
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	357/327

Constants of dn/dt		
D_0	D_1	D_2
6.23E-06	1.24E-08	-1.88E-11
E_0	E_1	λ_{TK}
1.67E-06	1.27E-09	4.39E-07