

H-ZF53	808227	$n_d = 1.80810$	$v_d = 22.70$	$n_F - n_C = 0.035602$
		$n_e = 1.81646$	$v_e = 22.51$	$n_F - n_C' = 0.036272$

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance		
	λ (nm)	n_λ					λ (nm)	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
n_{2325}	2325.42		$P_{d,C}$	0.2848	RC (S)	1	2400	0.952	0.907
n_{1970}	1970.09		$P_{e,d}$	0.2348	RA (S)	1	2200	0.977	0.955
n_{1530}	1529.58		$P_{g,F}$	0.6244	D_W	1	2000	0.990	0.980
n_{1129}	1128.64	1.77093	$P'_{d,c'}$	0.2365	D_A	1	1800	0.996	0.992
n_{1064}	1064.00	1.77296	$P'_{e,d}$	0.2305	$R_{OH}(S)$	1	1600	0.997	0.994
n_t	1013.98	1.77469	$P'_{g,F'}$	0.5511	RP (S)	1	1400	0.997	0.994
n_s	852.11	1.78190			CR	1	1200	0.999	0.998
$n_{A'}$	768.19	1.78728	Deviation of Relative Partial Dispersions		Expansion Coefficient $\alpha (\times 10^{-7}/K)$		1060	0.999	0.998
n_r	706.52	1.79250					1000	0.999	0.998
n_C	656.27	1.79796					950	0.999	0.998
$n_{C'}$	643.85	1.79952					900	0.999	0.998
n_{He-Ne}	632.80	1.80101					850	0.999	0.998
n_D	589.29	1.80779	ΔP_{Fe}	0.0026	$^{\circ}C$	α	800	0.999	0.998
n_d	587.56	1.80810	$\Delta P_{g,F}$	0.0185	-50/-40	81	750	0.999	0.998
n_e	546.07	1.81646	$\Delta P_{C,t}$	0.0035	-40/-30	83	700	0.999	0.998
n_F	486.13	1.83356	$\Delta P_{C,s}$	-0.0038	-30/-20	84	650	0.999	0.998
$n_{F'}$	479.99	1.83580	Thermal Properties		-20/-10	85	600	0.998	0.997
n_g	435.84	1.85579	$T_g (^{\circ}C)$	554	-10/0	87	550	0.996	0.991
n_h	404.66	1.87626	$T_s (^{\circ}C)$	590	0/10	89	500	0.988	0.975
n_i	365.01	1.91704	$T_{10}^{14.5} (^{\circ}C)$	510	10/20	93	480	0.983	0.966
			$T_{10}^{13} (^{\circ}C)$	543	20/30	94	460	0.980	0.960
			$\alpha_{-50/80^{\circ}C} (10^{-7}/K)$	93	30/40	96	440	0.970	0.942
			$\alpha_{100/300^{\circ}C} (10^{-7}/K)$	118	40/50	97	420	0.953	0.907
			λ (W/(m K))	0.81	50/60	99	400	0.905	0.819
					60/70	101	390	0.815	0.664
					70/80	102	380	0.623	0.388
			Mechanical Properties		80/90	103	370	0.257	0.066
			HK (10^7Pa)	431	90/100	104	360		
			F_A	232	100/110	105	350		
			E (GPa)	82.2	110/120	106	340		
			G (GPa)	32.3	120/130	108	330		
			μ	0.273	130/140	113	320		
			σ_b (MPa)		140/150	114	310		
			B ($10^{-12}/\text{Pa}$)		150/160	119	300		

Constants of Dispersion Formula	
A_0	3.12913534E+00
A_1	-1.92479858E-02
A_2	3.50931423E-02
A_3	7.14577171E-03
A_4	-8.23234224E-04
A_5	7.26619702E-05

Density		Solarization	
ρ (g/cm ³)	3.32	$\Delta\lambda$ (%)	-1.0

Range of Temperature (°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	-7.5	-7.0	-5.3	-5.2	-5.1	-4.5	-3.9	-2.8	-2.6	-1.2
-40 ~ -20	-7.1	-6.7	-5.0	-4.9	-4.8	-4.2	-3.7	-2.6	-2.5	-0.9
-20 ~ 0	-6.8	-6.4	-4.6	-4.5	-4.4	-3.8	-3.6	-2.5	-2.4	-0.6
0 ~ 20	-6.4	-5.8	-4.3	-4.2	-4.0	-3.5	-3.3	-2.2	-2.0	-0.4
20 ~ 40	-5.7	-5.1	-4.1	-4.0	-3.7	-3.4	-3.0	-2.0	-1.8	-0.2
40 ~ 60	-5.2	-4.7	-4.0	-3.9	-3.6	-3.3	-2.9	-1.4	-1.2	0.6
60 ~ 80	-4.9	-4.5	-3.9	-3.8	-3.5	-3.3	-2.8	-1.2	-1.0	0.9
80 ~ 100	-4.6	-4.2	-3.9	-3.8	-3.4	-3.3	-2.7	-1.1	-0.9	0.4
100 ~ 120	-4.5	-4.1	-3.8	-3.7	-3.4	-3.1	-2.5	-1.1	-0.9	1.0
120 ~ 140	-4.4	-4.0	-3.7	-3.6	-3.4	-3.1	-2.5	-1.1	-0.9	1.0
140 ~ 160	-4.3	-3.9	-3.7	-3.6	-3.4	-3.1	-2.5	-1.1	-0.9	0.9

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	450/370
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	398/368

Constants of dn/dt		
D_0	D_1	D_2
-1.38E-05	2.31E-08	-5.22E-11
E_0	E_1	λ_{TK}
1.50E-06	-6.13E-10	2.33E-01