

H-ZF52B	847238	$n_d = 1.84666$	$v_d = 23.78$	$n_F - n_C = 0.035608$
		$n_e = 1.85504$	$v_e = 23.59$	$n_F - n_C' = 0.036247$

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance		
	λ (nm)	n_λ					λ (nm)	τ_{5mm}	τ_{10mm}
n_{2325}	2325.42		$P_{d,C}$	0.2845	RC (S)	1	2400	0.957	0.915
n_{1970}	1970.09		$P_{e,d}$	0.2353	RA (S)	1	2200	0.978	0.957
n_{1530}	1529.58		$P_{g,F}$	0.6277	D_W	1	2000	0.993	0.987
n_{1129}	1128.64	1.80930	$P'_{d,c'}$	0.2359	D_A	1	1800	0.997	0.994
n_{1064}	1064.00	1.81131	$P'_{e,d}$	0.2312	$R_{OH}(S)$	1	1600	0.998	0.997
n_t	1013.98	1.81304	$P'_{g,F'}$	0.5554	RP (S)	1	1400	0.999	0.998
n_s	852.11	1.82033			CR	1	1200	0.999	0.998
$n_{A'}$	768.19	1.82578	Deviation of Relative Partial Dispersions		Expansion Coefficient $\alpha (\times 10^{-7}/K)$		1060	0.999	0.998
n_r	706.52	1.83105					1000	0.999	0.998
n_C	656.27	1.83653					950	0.999	0.998
$n_{C'}$	643.85	1.83811					900	0.999	0.998
n_{He-Ne}	632.80	1.83959					850	0.999	0.998
n_D	589.29	1.84636	ΔP_{Fe}	0.0029	$^{\circ}C$	α	800	0.998	0.997
n_d	587.56	1.84666	$\Delta P_{g,F}$	0.0236	-50/-40	67	750	0.998	0.997
n_e	546.07	1.85504	$\Delta P_{C,t}$	0.0043	-40/-30	75	700	0.998	0.996
n_F	486.13	1.87213	$\Delta P_{C,s}$	-0.0025	-30/-20	84	650	0.998	0.996
$n_{F'}$	479.99	1.87435	Thermal Properties		-20/-10	85	600	0.997	0.994
n_g	435.84	1.89448	$T_g (^{\circ}C)$	551	-10/0	85	550	0.996	0.993
n_h	404.66	1.91508	$T_s (^{\circ}C)$	591	0/10	86	500	0.993	0.987
n_i	365.01		$T_{10}^{14.5} (^{\circ}C)$	507	10/20	86	480	0.985	0.971
			$T_{10}^{13} (^{\circ}C)$	540	20/30	86	460	0.979	0.958
			$\alpha_{-50/80^{\circ}C} (10^{-7}/K)$	83	30/40	87	440	0.968	0.937
			$\alpha_{100/300^{\circ}C} (10^{-7}/K)$	99	40/50	87	420	0.952	0.906
			λ (W/(m K))	0.82	50/60	88	400	0.919	0.845
					60/70	89	390	0.839	0.704
					70/80	89	380	0.729	0.532
					80/90	90	370	0.455	0.207
					90/100	91	360	0.135	0.018
					100/110	93	350		
					110/120	95	340		
					120/130	98	330		
					130/140	99	320		
					140/150	101	310		
					150/160	103	300		
							290		
							280		

Constants of Dispersion Formula	
A_0	3.25501075E+00
A_1	-1.55546766E-02
A_2	4.62097153E-02
A_3	3.54440350E-03
A_4	-2.41943734E-04
A_5	4.01197414E-05

Density		Solarization	
ρ (g/cm ³)	3.71	$\Delta\lambda$ (%)	-0.5

Mechanical Properties	
HK (10 ⁷ Pa)	450
F_A	195
E (GPa)	96.7
G (GPa)	37.9
μ	0.276
σ_b (MPa)	
B (10 ⁻¹² /Pa)	2.53

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	-2.8	-2.6	-2.4	-2.3	-2.2	-2.1	-1.9	-1.7	-1.5	-1.0
-40 ~ -20	-2.7	-2.6	-2.3	-2.3	-2.2	-2.0	-1.8	-1.6	-1.4	-0.8
-20 ~ 0	-2.7	-2.4	-2.1	-2.0	-2.0	-1.9	-1.6	-1.4	-1.3	-0.5
0 ~ 20	-2.6	-2.3	-1.9	-1.9	-1.9	-1.7	-1.5	-1.2	-1.2	-0.4
20 ~ 40	-2.5	-2.2	-1.8	-1.8	-1.7	-1.5	-1.4	-1.1	-0.8	-0.1
40 ~ 60	-2.3	-2.0	-1.6	-1.6	-1.5	-1.3	-1.2	-0.9	-0.6	0.2
60 ~ 80	-2.3	-1.9	-1.6	-1.6	-1.5	-1.2	-1.1	-0.7	-0.3	0.6
80 ~ 100	-2.3	-1.7	-1.3	-1.3	-1.2	-1.0	-0.9	-0.5	-0.1	0.9
100 ~ 120	-2.1	-1.5	-1.1	-1.1	-1.0	-0.8	-0.7	-0.4	0.1	1.1
120 ~ 140	-2.0	-1.1	-0.9	-0.8	-0.8	-0.6	-0.3	-0.1	0.3	1.4
140 ~ 160	-1.9	-0.9	-0.7	-0.6	-0.6	-0.4	-0.1	0.1	0.4	1.6

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(420)/375
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	412/372

Constants of dn/dt		
D_0	D_1	D_2
-7.08E-06	1.39E-08	-1.78E-11
E_0	E_1	λ_{TK}
5.17E-07	6.08E-10	2.48E-01