

H-ZF75A	946180	$n_d = 1.94595$	$v_d = 17.98$	$n_F - n_C = 0.052600$
		$n_e = 1.95825$	$v_e = 17.84$	$n_F - n_C = 0.053718$

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance		
	λ (nm)	n_λ					λ (nm)	τ_{5mm}	τ_{10mm}
n_{2325}	2325.42	1.85978	$P_{d,C}$	0.2798	RC (S)	1	2400	0.972	0.945
n_{1970}	1970.09	1.86908	$P_{e,d}$	0.2338	RA (S)	1	2200	0.982	0.964
n_{1530}	1529.58	1.88034	$P_{g,F}$	0.6549	D_W	1	2000	0.997	0.994
n_{1129}	1128.64	1.89291	$P'_{d,c}$	0.2318	D_A	1	1800	0.997	0.994
n_{1064}	1064.00	1.89565	$P'_{e,d}$	0.2290	$R_{OH}(S)$	1	1600	0.997	0.994
n_t	1013.98	1.89802	$P'_{g,F}$	0.5782	RP (S)	1	1400	0.997	0.994
n_s	852.11	1.90816			CR		1200	0.997	0.994
$n_{A'}$	768.19	1.91585	Deviation of Relative Partial Dispersions		Expansion Coefficient $\alpha (\times 10^{-7}/K)$		1060	0.997	0.994
n_f	706.52	1.92337					$\Delta P_{F,e}$	0.0060	$^{\circ}C$
n_C	656.27	1.93123	$\Delta P_{g,F}$	0.0412	-50/-40	47	950	0.997	0.994
$n_{C'}$	643.85	1.93350	$\Delta P_{C,t}$	0.0041	-40/-30	50	900	0.997	0.994
n_{He-Ne}	632.80	1.93564	$\Delta P_{C,s}$	-0.0050	-30/-20	51	850	0.997	0.994
n_D	589.29	1.94550	Thermal Properties		-20/-10	53	800	0.997	0.994
n_d	587.56	1.94595			$T_g (^{\circ}C)$	682	0/10	55	750
n_e	546.07	1.95825	$T_s (^{\circ}C)$	709	10/20	56	700	0.997	0.994
n_F	486.13	1.98383	$T_{10}^{14.5} (^{\circ}C)$	609	20/30	57	650	0.997	0.994
$n_{F'}$	479.99	1.98722	$T_{10}^{13} (^{\circ}C)$	660	30/40	57	600	0.995	0.990
n_g	435.84	2.01828	$\alpha_{-50/80^{\circ}C} (10^{-7}/K)$	55	40/50	58	550	0.993	0.986
n_h	404.66	2.05110	$\alpha_{100/300^{\circ}C} (10^{-7}/K)$	70	50/60	60	500	0.970	0.941
n_i	365.01		$\lambda (W/(m K))$	1.11	60/70	60	480	0.960	0.921
					70/80	61	460	0.946	0.894
					80/90	61	440	0.923	0.853
					90/100	62	420	0.870	0.756
					100/110	63	400	0.546	0.298
					E (GPa)	104.6	390	0.181	0.033
					G (GPa)	41.1	380		
					μ	0.272	370		
					σ_b (MPa)	66	360		
					B ($10^{-12}/Pa$)	3.38	350		
							340		
							330		
							320		
							310		
							300		
							290		
							280		

Constants of Dispersion Formula	
A_0	3.55084508E+00
A_1	-1.93992631E-02
A_2	6.82201738E-02
A_3	5.85319322E-03
A_4	-4.21740063E-04
A_5	8.66214086E-05

Density	Solarization
$\rho (g/cm^3)$	3.53
$\Delta\lambda (%)$	-0.5

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	0.5	1.2	1.6	1.7	1.8	2.2	2.9	4.8	5.0	7.8
-40 ~ -20	0.5	1.3	1.8	1.9	2.0	2.5	3.4	5.4	5.6	8.7
-20 ~ 0	0.7	1.5	2.1	2.2	2.3	3.0	3.8	6.1	6.3	9.6
0 ~ 20	0.8	1.6	2.3	2.4	2.5	3.2	4.2	6.7	6.9	10.3
20 ~ 40	1.1	1.9	2.8	2.7	2.8	3.5	4.6	7.1	7.3	11.0
40 ~ 60	1.2	2.2	3.1	3.2	3.3	4.0	5.1	7.7	7.9	12.2
60 ~ 80	1.6	2.6	3.6	3.7	3.8	4.4	5.6	8.6	8.8	12.9
80 ~ 100	2.0	2.9	4.0	4.1	4.2	5.0	6.1	9.5	9.8	13.7
100 ~ 120	2.4	3.3	4.3	4.5	4.6	5.6	6.6	10.1	10.3	14.4
120 ~ 140	2.7	3.8	4.9	5.0	5.2	6.1	7.1	10.9	11.1	15.2
140 ~ 160	3.1	4.2	5.4	5.5	5.6	6.5	7.8	11.6	11.8	16.2

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(450)/390
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	424/391

Constants of dn/dt		
D_0	D_1	D_2
-2.30E-06	1.66E-08	-7.59E-12
E_0	E_1	λ_{TK}
1.12E-06	1.62E-09	3.30E-01