

<b>H-ZF75GT</b>	<b>946180</b>	$n_d = 1.94595$	$v_d = 17.98$	$n_F - n_C = 0.052600$
		$n_e = 1.95825$	$v_e = 17.84$	$n_F - n_C = 0.053718$

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance		
	$\lambda$ (nm)	$n_\lambda$					$\lambda$ (nm)	$\tau_{5mm}$	$\tau_{10mm}$
$n_{2325}$	2325.42	1.85978	$P_{d,C}$	0.2798	RC (S)	1	2400	0.975	0.951
$n_{1970}$	1970.09	1.86908	$P_{e,d}$	0.2338	RA (S)	1	2200	0.986	0.973
$n_{1530}$	1529.58	1.88034	$P_{g,F}$	0.6549	$D_W$	1	2000	0.997	0.995
$n_{1129}$	1128.64	1.89291	$P'_{d,c}$	0.2318	$D_A$	1	1800	0.997	0.995
$n_{1064}$	1064.00	1.89565	$P'_{e,d}$	0.2290	$R_{OH}(S)$	1	1600	0.997	0.995
$n_t$	1013.98	1.89802	$P'_{g,F}$	0.5782	RP (S)	1	1400	0.998	0.996
$n_s$	852.11	1.90816			CR	1	1200	0.998	0.996
$n_{A'}$	768.19	1.91585	Deviation of Relative Partial Dispersions		Expansion Coefficient $\alpha (\times 10^{-7}/K)$		1060	0.998	0.996
$n_f$	706.52	1.92337	$\Delta P_{F,e}$	0.0060	$^\circ C$	$\alpha$	1000	0.998	0.996
$n_C$	656.27	1.93123	$\Delta P_{g,F}$	0.0412	-50/-40	48	950	0.998	0.996
$n_{C'}$	643.85	1.93350	$\Delta P_{C,t}$	0.0041	-40/-30	51	900	0.998	0.996
$n_{He-Ne}$	632.80	1.93564	$\Delta P_{C,s}$	-0.0050	-30/-20	53	850	0.998	0.996
$n_D$	589.29	1.94550	Thermal Properties		-20/-10	55	800	0.998	0.996
$n_d$	587.56	1.94595	$T_g$ ( $^\circ C$ )	682	10/20	57	750	0.998	0.996
$n_e$	546.07	1.95825	$T_s$ ( $^\circ C$ )	709	20/30	58	700	0.998	0.996
$n_F$	486.13	1.98383	$T_{10}^{14.5}$ ( $^\circ C$ )	609	30/40	59	650	0.998	0.996
$n_{F'}$	479.99	1.98722	$T_{10}^{13}$ ( $^\circ C$ )	660	40/50	59	600	0.998	0.996
$n_g$	435.84	2.01828	$\alpha_{-50/80^\circ C}$ ( $10^{-7}/K$ )	54	50/60	60	550	0.995	0.991
$n_h$	404.66	2.05110	$\alpha_{100/300^\circ C}$ ( $10^{-7}/K$ )	68	60/70	61	500	0.988	0.975
$n_i$	365.01		$\lambda$ (W/(m K))	1.11	70/80	61	480	0.982	0.963
					80/90	62	460	0.973	0.946
					90/100	62	440	0.957	0.916
					100/110	63	420	0.915	0.838
					E (GPa)	104.6	400	0.604	0.365
					G (GPa)	41.1	390	0.243	0.059
					$\mu$	0.272	380		
					$\sigma_b$ (MPa)	78	370		
					B ( $10^{-12}/Pa$ )	3.38	360		
							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 <sup>3</sup> )	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	
$\lambda_{80}(\lambda_{70})/\lambda_5$	(430)/392
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	417/389

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