

H-ZF50GT	741278	$n_d = 1.74077$	$v_d = 27.76$	$n_F - n_C = 0.026685$
		$n_e = 1.74707$	$v_e = 27.54$	$n_F - n_C' = 0.027125$

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	1.69064	$P_{d,C}$	0.2886	RC (S)	1	2400	0.956	0.910
n_{1970}	1970.09	1.69692	$P_{e,d}$	0.2361	RA (S)	1	2200	0.969	0.944
n_{1530}	1529.58	1.70426	$P_{g,F}$	0.6078	D_W	1	2000	0.990	0.980
n_{1129}	1128.64	1.71195	$P'_{d,c'}$	0.2396	D_A	1	1800	0.993	0.986
n_{1064}	1064.00	1.71354	$P'_{e,d}$	0.2323	$R_{OH}(S)$	1	1600	0.998	0.996
n_t	1013.98	1.71491	$P'_{g,F'}$	0.5379	RP (S)	1	1400	0.998	0.996
n_s	852.11	1.72060			CR		1200	0.998	0.996
$n_{A'}$	768.19	1.72483	Deviation of Relative Partial Dispersions		Expansion Coefficient $\alpha (\times 10^{-7}/K)$		1060	0.998	0.996
n_r	706.52	1.72888					1000	0.998	0.996
n_C	656.27	1.73307					950	0.998	0.996
$n_{C'}$	643.85	1.73427					900	0.998	0.996
n_{He-Ne}	632.80	1.73540					850	0.998	0.996
n_D	589.29	1.74054	$\Delta P_{F,e}$	0.0007	$^{\circ}C$	α	800	0.998	0.996
n_d	587.56	1.74077	$\Delta P_{g,F}$	0.0103	-50/-40	72	750	0.998	0.996
n_e	546.07	1.74707	$\Delta P_{C,t}$	0.0059	-40/-30	75	700	0.998	0.996
n_F	486.13	1.75976	$\Delta P_{C,s}$	0.0003	-30/-20	77	650	0.998	0.996
$n_{F'}$	479.99	1.76139	Thermal Properties		-20/-10	78	600	0.998	0.996
n_g	435.84	1.77598			-10/0	80	550	0.998	0.996
n_h	404.66	1.79059	Tg ($^{\circ}C$)	616	0/10	81	500	0.996	0.994
n_i	365.01	1.81850	Ts ($^{\circ}C$)	650	10/20	82	480	0.993	0.991
			$T_{10}^{14.5} (^{\circ}C)$	540	20/30	83	460	0.990	0.988
			$T_{10}^{13} (^{\circ}C)$	591	30/40	84	440	0.987	0.981
			$\alpha_{-50/80^{\circ}C} (10^{-7}/K)$	81	40/50	85	420	0.982	0.965
			$\alpha_{100/300^{\circ}C} (10^{-7}/K)$	101	50/60	85	400	0.955	0.914
			λ (W/(m K))	1.16	60/70	86	390	0.914	0.834
					70/80	87	380	0.790	0.623
			Mechanical Properties		80/90	87	370	0.467	0.219
					90/100	88	360		
			HK (10^7Pa)	555	100/110	89	350		
			F_A	143	110/120	90	340		
			E (GPa)	90.4	120/130	91	330		
			G (GPa)	36.2	130/140	93	320		
			μ	0.248	140/150	94	310		
			σ_b (MPa)	58	150/160	95	300		
			B ($10^{-12}/Pa$)	2.62			290		
							280		

Constants of Dispersion Formula	
A_0	2.91816811E+00
A_1	-1.22621813E-02
A_2	3.41878382E-02
A_3	2.36117574E-03
A_4	-1.68240994E-04
A_5	2.26673138E-05

Density		Solarization	
ρ (g/cm ³)	3.05	$\Delta\lambda$ (%)	0.4

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	0.8	1.4	1.8	1.8	1.8	2.1	2.6	3.6	3.6	4.7
-40 ~ -20	0.8	1.4	1.8	1.8	1.9	2.1	2.7	3.7	3.7	5.0
-20 ~ 0	0.9	1.5	1.9	1.9	1.9	2.3	2.7	3.8	3.8	5.2
0 ~ 20	0.9	1.5	1.9	1.9	1.9	2.4	2.8	4.0	4.0	5.4
20 ~ 40	0.8	1.6	1.9	2.0	2.1	2.6	3.1	4.3	4.3	5.8
40 ~ 60	1.0	1.7	2.0	2.1	2.2	2.6	3.1	4.6	4.6	6.0
60 ~ 80	1.2	1.9	2.3	2.3	2.4	2.9	3.2	4.8	4.8	6.3
80 ~ 100	1.4	2.0	2.4	2.5	2.7	3.0	3.4	4.9	4.9	6.6
100 ~ 120	1.4	2.1	2.6	2.7	2.7	3.1	3.6	5.1	5.1	6.8
120 ~ 140	1.5	2.2	2.9	3.0	3.1	3.5	3.8	5.4	5.4	7.1
140 ~ 160	1.7	2.4	3.0	3.0	3.1	3.6	4.0	5.6	5.6	7.3

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	410/365
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	389/364

Constants of dn/dt		
D_0	D_1	D_2
-1.87E-06	1.30E-08	-1.69E-11
E_0	E_1	λ_{TK}
8.65E-07	7.76E-10	2.93E-01