

H-ZBaF52	670472	$n_d = 1.67003$	$v_d = 47.20$	$n_F - n_C = 0.014197$
		$n_e = 1.67340$	$v_e = 46.90$	$n_{F'} - n_{C'} = 0.014358$

Refractive Indices			Relative Partial Dispersion		Chemical Properties (grade)		Internal Transmittance		
	λ (nm)	n_λ					λ (nm)	τ_{5mm}	τ_{10mm}
n_{2325}	2325.42	1.63652	$P_{d,C}$	0.2987	RC (S)	1	2400	0.938	0.877
n_{1970}	1970.09	1.64169	$P_{e,d}$	0.2374	RA (S)	3	2200	0.970	0.944
n_{1530}	1529.58	1.64750	$P_{g,F}$	0.5628	D_w	1	2000	0.989	0.978
n_{1129}	1128.64	1.65305	$P'_{d,c'}$	0.2486	D_A	1	1800	0.993	0.987
n_{1064}	1064.00	1.65411	$P'_{e,d}$	0.2347	$R_{OH}(S)$	1	1600	0.999	0.998
n_t	1013.98	1.65500	$P'_{g,F'}$	0.4987	RP (S)	1	1400	0.999	0.998
n_s	852.11	1.65856			CR	1	1200	0.999	0.998
$n_{A'}$	768.19	1.66107	Deviation of Relative Partial Dispersions $\Delta P_{F,e}$ 0.0000 $\Delta P_{g,F}$ -0.0024 $\Delta P_{C,t}$ -0.0088 $\Delta P_{C,s}$ -0.0044		Expansion Coefficient $\alpha (\times 10^{-7}/K)$ $^{\circ}C$ α -50/-40 55 -40/-30 59 -30/-20 62 -20/-10 64 -10/0 66 0/10 68 10/20 70 20/30 71 30/40 72 40/50 73 50/60 73 60/70 74 70/80 74 80/90 75 90/100 76 100/110 77 110/120 77 120/130 78 130/140 79 140/150 81 150/160 82		1060	0.999	0.998
n_f	706.52	1.66342					1000	0.999	0.998
n_C	656.27	1.66579					950	0.999	0.998
$n_{C'}$	643.85	1.66646					900	0.999	0.998
n_{He-Ne}	632.80	1.66709					850	0.999	0.998
n_D	589.29	1.66990	800	0.999	0.998				
n_d	587.56	1.67003	750	0.999	0.998				
n_e	546.07	1.67340	700	0.999	0.998				
n_F	486.13	1.67999	650	0.999	0.998				
$n_{F'}$	479.99	1.68082	600	0.999	0.998				
n_g	435.84	1.68798	550	0.999	0.998				
n_h	404.66	1.69475	500	0.998	0.996				
n_i	365.01	1.70662	480	0.996	0.993				
			460	0.995	0.991				
			440	0.994	0.988				
			420	0.992	0.983				
			400	0.983	0.967				
			390	0.973	0.947				
			380	0.952	0.907				
			370	0.909	0.826				
			360	0.807	0.652				
			350	0.596	0.355				
			340	0.269	0.072				
			330						
			320						
			310						
			300						
			290						
			280						

Constants of Dispersion Formula	
A_0	2.72917137E+00
A_1	-1.01247435E-02
A_2	2.03135768E-02
A_3	5.48969301E-04
A_4	-1.03383424E-05
A_5	1.79727765E-06

Density	Solarization
ρ (g/cm ³)	$\Delta\lambda$ (%)
3.49	-1.0

Thermal Properties	
T_g (°C)	602
T_s (°C)	661
$T_{10}^{14.5}$ (°C)	539
T_{10}^{13} (°C)	582
$\alpha_{-50/80^{\circ}C}$ (10 ⁻⁷ /K)	67
$\alpha_{100/300^{\circ}C}$ (10 ⁻⁷ /K)	85
λ (W/(m K))	1.08

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	3.5	3.9	4.1	4.2	4.3	4.5	4.7	5.2	5.2	5.6
-40 ~ -20	3.5	3.8	4.1	4.2	4.3	4.5	4.7	5.2	5.2	5.6
-20 ~ 0	3.6	3.9	4.1	4.2	4.2	4.5	4.7	5.2	5.3	5.8
0 ~ 20	3.6	3.9	4.1	4.2	4.2	4.5	4.7	5.2	5.3	5.8
20 ~ 40	3.6	3.9	4.0	4.1	4.3	4.5	4.7	5.3	5.4	5.9
40 ~ 60	3.6	4.0	4.1	4.2	4.3	4.5	4.8	5.4	5.5	6.0
60 ~ 80	3.6	4.0	4.1	4.2	4.3	4.6	4.9	5.5	5.6	6.2
80 ~ 100	3.6	4.0	4.2	4.3	4.4	4.6	4.9	5.7	5.8	6.3
100 ~ 120	3.7	4.1	4.4	4.5	4.5	4.6	5.1	6.0	6.1	6.4
120 ~ 140	3.7	4.1	4.5	4.6	4.6	4.7	5.1	6.1	6.2	6.5
140 ~ 160	3.8	4.2	4.6	4.7	4.7	4.7	5.2	6.3	6.4	6.7

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	380/340
Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	369/340

Constants of dn/dt		
D_0	D_1	D_2
3.13E-06	9.94E-09	-1.48E-11
E_0	E_1	λ_{TK}
6.71E-07	8.33E-10	2.17E-01