

H-ZF75	946180	$n_d = 1.94595$	$v_d = 17.98$	$n_F - n_c = 0.052599$
		$n_e = 1.95825$	$v_e = 17.84$	$n_{F'} - n_{c'} = 0.053718$

Refractive Indices		
	$\lambda(\text{nm})$	
n_r	706.5	1.92337
n_c	656.3	1.93123
$n_{c'}$	643.8	1.93350
$n_{\text{He-Ne}}$	632.8	1.93564
n_D	589.3	1.94550
n_d	587.6	1.94595
n_e	546.1	1.95825
n_F	486.1	1.98383
$n_{F'}$	480.0	1.98722
n_g	435.8	2.01825
n_h	404.7	2.05106
n_i	365.0	

Chemical Properties (grade)	
RC(S)	2
RA(S)	1
D_W	1
D_A	1

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400	0.974	0.935
2200	0.990	0.970
2000	0.995	0.990
1800	0.995	0.990
1600	0.995	0.990
1400	0.995	0.990
1200	0.995	0.990
1060	0.995	0.990
1000	0.995	0.990
950	0.995	0.990
900	0.995	0.990
850	0.995	0.990
800	0.995	0.990

Thermal Properties	
$T_g(^{\circ}\text{C})$	645
$T_s(^{\circ}\text{C})$	675
$T_{10}^{14.5}(^{\circ}\text{C})$	592
$T_{10}^{13}(^{\circ}\text{C})$	629
$\alpha_{20/120^{\circ}\text{C}} (10^{-7}/\text{K})$	61
$\alpha_{100/300^{\circ}\text{C}} (10^{-7}/\text{K})$	74
$\lambda(\text{W}/\text{m}\cdot\text{K})$	

Constants of Dispersion Formula	
A_0	3.56378400E+00
A_1	-2.54496440E-02
A_2	5.84016590E-02
A_3	9.23109830E-03
A_4	-9.54997270E-04
A_5	1.17774560E-04

Mechanical Properties	
$H_K(10^7\text{Pa})$	475
F_A	202
$E(10^7\text{Pa})$	9370
$G(10^7\text{Pa})$	3763
μ	0.245
$B(10^{-12}/\text{Pa})$	

Relative Partial Dispersion			
$P_{d,c}$	0.2798	$P'_{d,c'}$	0.2318
$P_{e,d}$	0.2338	$P'_{e,d'}$	0.2290
$P_{g,F}$	0.6544	$P'_{g,F'}$	0.5776

Anomalous dispersions	
$\Delta P_{F,e}$	0.0060
$\Delta P_{g,F}$	0.0406

Range of Temperature ($^{\circ}\text{C}$)	Temperature Coefficients of Refractive Index						
	dn/dt relative ($10^{-6} / ^{\circ}\text{C}$)						
	t	C'	He-Ne	D	e	F'	g
-40~-20	-1.4	0.0	0.1	0.6	1.4	3.7	6.7
-20~0	-1.3	0.2	0.3	0.9	1.8	4.2	7.6
0~20	-1.2	0.5	0.6	1.2	2.2	4.8	8.4
20~40	-1.0	0.8	0.9	1.6	2.5	5.3	9.2
40~60	-0.8	1.1	1.2	1.9	3.0	5.9	10.0
60~80	-0.6	1.4	1.5	2.3	3.4	6.5	10.8

700	0.995	0.990
650	0.995	0.990
600	0.995	0.990
550	0.987	0.974
500	0.963	0.926
480	0.942	0.885
460	0.909	0.824
440	0.859	0.725
420	0.751	0.550
400	0.412	0.160
390		
380		
370		
360		
350		
340		
330		
320		
310		
300		
290		
280		

Density	
$\rho(\text{g}/\text{cm}^3)$	3.58

Coloration Code			
λ_{80}/λ_5		λ_{70}/λ_5	47/40

Remarks