

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

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
$\mu$	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			
$\lambda_{80}/\lambda_5$		$\lambda_{70}/\lambda_5$	47/40

Remarks