

H-ZF3 717295	$n_d = 1.71736$	$v_d = 29.50$	$n_F - n_C = 0.024318$
	$n_e = 1.72310$	$v_e = 29.27$	$n_{F'} - n_{C'} = 0.024707$

Refractive Indices		
	$\lambda(\text{nm})$	n_λ
n_{2325}	2325.42	1.67093
n_{1970}	1970.09	1.67676
n_{1530}	1529.58	1.68361
n_{1129}	1128.64	1.69079
n_t	1013.98	1.69355
n_s	852.11	1.69884
$n_{A'}$	768.19	1.70274
n_r	706.52	1.70647
n_C	656.27	1.71032
$n_{C'}$	643.85	1.71142
$n_{\text{He-Ne}}$	632.80	1.71245
n_D	589.29	1.71715
n_d	587.56	1.71736
n_e	546.07	1.72310
n_F	486.13	1.73464
$n_{F'}$	479.99	1.73613
n_g	435.84	1.74933
n_h	404.66	1.76249
n_i	365.01	1.78745

Constants of Dispersion Formula	
A_0	2.84670798E+00
A_1	-1.12350760E-02
A_2	3.23607570E-02
A_3	1.62442342E-03
A_4	-8.05719818E-05
A_5	1.55748376E-05

Relative Partial Dispersions			
$P_{d,C}$	0.2895	$P'_{d,C'}$	0.2404
$P_{e,d}$	0.2360	$P'_{e,d}$	0.2323
$P_{g,F}$	0.6040	$P'_{g,F'}$	0.5342

Range of Temperature (°C)	Temperature Coefficients of Refractive Index						
	dn/dt relative ($10^{-6} / ^\circ\text{C}$)						
	t	C'	He-Ne	D	e	F'	g
-40 ~ -20	0.5	1.4	1.5	1.8	2.1	3.1	4.3
-20 ~ 0	0.5	1.4	1.5	1.8	2.2	3.3	4.5
0 ~ 20	0.5	1.5	1.5	1.9	2.3	3.4	4.7
20 ~ 40	0.5	1.5	1.6	1.9	2.4	3.6	4.9
40 ~ 60	0.5	1.6	1.7	2.0	2.5	3.7	5.2
60 ~ 80	0.7	1.7	1.8	2.2	2.7	4.0	5.5

Chemical Properties (grade)	
RC(S)	1
RA(S)	1
D_W	1
D_A	1
$R_{OH}(S)$	1
RP(S)	1

Thermal Properties	
$T_g(^\circ\text{C})$	586
$T_s(^\circ\text{C})$	633
$T_{10}^{14.5}(^\circ\text{C})$	538
$T_{10}^{13}(^\circ\text{C})$	572
$\alpha_{-50/80^\circ\text{C}}(10^{-7}/\text{K})$	78
$\alpha_{100/300^\circ\text{C}}(10^{-7}/\text{K})$	107

Mechanical Properties	
HK(10^7Pa)	578
F_A	164
$E(10^7\text{Pa})$	9705
$G(10^7\text{Pa})$	3873
μ	0.253
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	2.780

Density	
$\rho(\text{g}/\text{cm}^3)$	3.06

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	0.0094
$\Delta P_{C,t}$	0.0065
$\Delta P_{C,s}$	0.0008

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.934	0.872
2200	0.963	0.927
2000	0.993	0.986
1800	0.998	0.996
1600	0.998	0.996
1400	0.998	0.996
1200	0.998	0.996
1060	0.998	0.996
1000	0.998	0.996
900	0.998	0.996
850	0.998	0.996
800	0.998	0.996
750	0.998	0.996
700	0.998	0.996
650	0.998	0.996
600	0.998	0.996
550	0.998	0.996
500	0.998	0.996
480	0.998	0.996
460	0.998	0.996
440	0.997	0.970
420	0.974	0.956
400	0.942	0.894
390	0.895	0.807
380	0.777	0.610
370	0.496	0.252
360	0.102	0.015
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	405/360

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	387/362