

<b>H-ZF5</b> <b>740283</b>	$n_d = 1.74000$	$\nu_d = 28.30$	$n_F - n_C = 0.026152$
	$n_e = 1.74617$	$\nu_e = 28.07$	$n_{F'} - n_{C'} = 0.026584$

Refractive Indices		
	$\lambda(\text{nm})$	$n_\lambda$
$n_{2325}$	2325.42	1.69091
$n_{1970}$	1970.09	1.69701
$n_{1530}$	1529.58	1.70416
$n_{1129}$	1128.64	1.71169
$n_t$	1013.98	1.71459
$n_s$	852.11	1.72020
$n_{A'}$	768.19	1.72435
$n_r$	706.52	1.72833
$n_C$	656.27	1.73245
$n_{C'}$	643.85	1.73363
$n_{\text{He-Ne}}$	632.80	1.73474
$n_D$	589.29	1.73977
$n_d$	587.56	1.74000
$n_e$	546.07	1.74617
$n_F$	486.13	1.75861
$n_{F'}$	479.99	1.76021
$n_g$	435.84	1.77450
$n_h$	404.66	1.78876
$n_i$	365.01	1.81588

Constants of Dispersion Formula	
$A_0$	2.91687382E+00
$A_1$	-1.18527790E-02
$A_2$	3.42689145E-02
$A_3$	2.02963652E-03
$A_4$	-1.14580838E-04
$A_5$	1.85928308E-05

Relative Partial Dispersions			
$P_{d,C}$	0.2886	$P'_{d,C'}$	0.2397
$P_{e,d}$	0.2359	$P'_{e,d}$	0.2321
$P_{g,F}$	0.6074	$P'_{g,F'}$	0.5376

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	-1.3	-0.2	-0.1	0.2	1.3	1.6	3.3
-20 ~ 0	0.1	0.1	0.1	0.5	2.1	2.3	3.8
0 ~ 20	0.0	0.4	0.4	0.8	1.3	2.5	4.0
20 ~ 40	-0.1	0.7	0.8	1.2	1.4	2.5	4.4
40 ~ 60	0.2	1.1	1.2	1.6	1.5	2.9	4.5
60 ~ 80	0.1	1.6	1.6	2.0	2.5	4.1	5.6

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

Thermal Properties	
$T_g(^\circ\text{C})$	593
$T_s(^\circ\text{C})$	639
$T_{10}^{14.5}(^\circ\text{C})$	543
$T_{10}^{13}(^\circ\text{C})$	574
$\alpha_{-50/80^\circ\text{C}}(10^{-7}/\text{K})$	86
$\alpha_{100/300^\circ\text{C}}(10^{-7}/\text{K})$	107

Mechanical Properties	
HK( $10^7\text{Pa}$ )	580
$F_A$	162
$E(10^7\text{Pa})$	9089
$G(10^7\text{Pa})$	3562
$\mu$	0.276
$B(\text{nm}/\text{cm}/10^5\text{Pa})$	2.780

Density	
$\rho(\text{g}/\text{cm}^3)$	3.09

Deviation of Relative Partial Dispersions	
$\Delta P_{F,e}$	0.0010
$\Delta P_{g,F}$	0.0108
$\Delta P_{C,t}$	0.0055
$\Delta P_{C,s}$	0.0000

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_5\text{mm}$	$\tau_{10}\text{mm}$
2400	0.937	0.878
2200	0.962	0.925
2000	0.991	0.982
1800	0.997	0.994
1600	0.997	0.994
1400	0.997	0.994
1200	0.997	0.994
1060	0.997	0.994
1000	0.997	0.994
900	0.997	0.994
850	0.997	0.994
800	0.997	0.994
750	0.997	0.994
700	0.997	0.994
650	0.997	0.994
600	0.997	0.994
550	0.995	0.991
500	0.992	0.988
480	0.990	0.985
460	0.988	0.981
440	0.985	0.973
420	0.978	0.957
400	0.952	0.907
390	0.912	0.834
380	0.807	0.657
370	0.535	0.292
360	0.113	0.016
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}(\lambda_{70})/\lambda_5$	410/365

Coloration of Internal Transmittance	
$\lambda\tau_{80}/\lambda\tau_5$	388/362