

H-ZF52HT 847238	$n_d = 1.84666$	$v_d = 23.78$	$n_F - n_C = 0.035597$
	$n_e = 1.85505$	$v_e = 23.60$	$n_{F'} - n_{C'} = 0.036234$

Refractive Indices		
	$\lambda(\text{nm})$	
n_r	706.5	1.83100
n_C	656.3	1.83649
$n_{C'}$	643.8	1.83807
$n_{\text{He-Ne}}$	632.8	1.83956
n_D	589.3	1.84636
n_d	587.6	1.84666
n_e	546.1	1.85505
n_F	486.1	1.87209
$n_{F'}$	480.0	1.87430
n_g	435.8	1.89413
n_h	404.7	1.91423
n_i	365.0	1.95356

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

Thermal Properties	
$T_g(^{\circ}\text{C})$	606
$T_s(^{\circ}\text{C})$	645
$T_{10}^{14.5}(^{\circ}\text{C})$	557
$T_{10}^{13}(^{\circ}\text{C})$	591
$\alpha_{20/120^{\circ}\text{C}}(10^{-7}/\text{K})$	90
$\alpha_{100/300^{\circ}\text{C}}(10^{-7}/\text{K})$	108
$\lambda(\text{W/m}\cdot\text{K})$	

Internal Transmittance		
$\lambda(\text{nm})$	$\tau_{5\text{mm}}$	$\tau_{10\text{mm}}$
2400	0.961	0.922
2200	0.982	0.957
2000	0.997	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
950	0.997	0.994
900	0.997	0.994
850	0.997	0.994
800	0.997	0.994
700	0.997	0.994
650	0.997	0.994
600	0.997	0.994
550	0.997	0.994
500	0.995	0.992
480	0.993	0.989
460	0.990	0.981
440	0.985	0.967
420	0.961	0.925
400	0.915	0.838
390	0.850	0.725
380	0.685	0.476
370	0.321	0.113
360		
350		
340		
330		
320		
310		
300		
290		
280		

Constants of Dispersion Formula	
A_0	3.26063210E+00
A_1	-1.77803980E-02
A_2	4.09029380E-02
A_3	5.60769340E-03
A_4	-5.64340390E-04
A_5	5.47633910E-05

Mechanical Properties	
$H_K(10^7\text{Pa})$	539
F_A	179
$E(10^7\text{Pa})$	9459
$G(10^7\text{Pa})$	3733
μ	0.267
$B(10^{-12}/\text{Pa})$	2.7

Relative Partial Dispersion			
$P_{d,C}$	0.2857	$P'_{d,C'}$	0.2371
$P_{e,d}$	0.2357	$P'_{e,d}$	0.2316
$P_{g,F}$	0.6191	$P'_{g,F'}$	0.5473

Anomalous dispersions	
$\Delta P_{F,e}$	0.0016
$\Delta P_{g,F}$	0.0150

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	-1.0	0.2	0.3	0.7	1.3	2.7	4.4
-20~0	-1.1	0.2	0.3	0.8	1.4	2.9	4.8
0~20	-1.1	0.3	0.4	0.9	1.5	3.1	5.1
20~40	-1.0	0.4	0.5	1.0	1.7	3.4	5.5
40~60	-0.9	0.6	0.7	1.2	1.9	3.7	5.9
60~80	-0.8	0.8	0.9	1.4	2.2	4.1	6.4

Density	
$\rho(\text{g}/\text{cm}^3)$	3.52

Coloration Code			
λ_{80}/λ_5		λ_{70}/λ_5	40.5/37

Remarks		
$\lambda_{\tau 80}$	(nm)	395