H-ZBaF50 658509

n_d = 1.65844	υ_d = 50.85	$n_F - n_C$ = 0.012948
n_e = 1.66152	υ_e = 50.57	$n_{F'} - n_{C'}$ = 0.013082

Refractive Indices		
	λ(nm)	
n_r	706.5	1.65235
n_C	656.3	1.65454
$n_{C'}$	643.8	1.65516
n_{He-Ne}	632.8	1.65574
n_D	589.3	1.65832
n_d	587.6	1.65844
n_e	546.1	1.66152
n_F	486.1	1.66749
$n_{F'}$	480.0	1.66824
n_g	435.8	1.67471
n_h	404.7	1.68080
n_i	365.0	1.69138

Chemical Properties (grade)	
RC(S)	3
RA(S)	1
D_W	1
D_A	3

Thermal Properties	
Tg(℃)	639
Ts(℃)	687
$T_{10}^{14.5}$(℃)	572
T_{10}^{13}(℃)	630
$\alpha_{20/120℃}$ (10^{-7}/K)	75
$\alpha_{20/300℃}$ (10^{-7}/K)	86
λ(W/m·K)	

Internal Transmittance		
λ(nm)	τ5mm	τ10mm
2400	0.932	0.869
2200	0.969	0.939
2000	0.991	0.982
1800	0.998	0.996
1600	0.999	0.998
1400	0.999	0.998
1200	0.999	0.998
1060	0.999	0.998
1000	0.999	0.998
950	0.999	0.998
900	0.999	0.998
850	0.999	0.998
800	0.999	0.998
700	0.999	0.998
650	0.999	0.998
600	0.999	0.998
550	0.999	0.998
500	0.998	0.996
480	0.997	0.994
460	0.996	0.992
440	0.995	0.990
420	0.990	0.980
400	0.981	0.962
390	0.969	0.939
380	0.945	0.893
370	0.897	0.805
360	0.808	0.653
350	0.646	0.417
340	0.396	0.157
330		
320		
310		
300		
290		
280		

Constants of Dispersion Formula	
A_0	2.6934245
A_1	-8.63701401×10-3
A_2	2.04964501×10-2
A_3	-9.32054531×10-5
A_4	6.27097471×10-5
A_5	-2.08346521×10-6

Mechanical Properties	
H_K(10^7Pa)	520
F_A	132
E(10^7Pa)	8633
G(10^7Pa)	3370
μ	0.281
B(10^{-12}/Pa)	2.34

Relative Partial Dispersion			
$P_{d,c}$	0.2919	$P'_{d,c'}$	0.2416
$P_{e,d}$	0.2471	$P'_{e,d}$	0.2446
$P_{g,F}$	0.5575	$P'_{g,F'}$	0.4946

Anomalous dispersions	
$\Delta P_{F,e}$	-0.0011
$\Delta P_{g,F}$	-0.0016

Range of Temperature (℃)	Temperature Coefficients of Refractive Index dn/dt relative (10^{-6} / ℃)						
	t	C'	He-Ne	D	e	F'	g
-40～-20	2.4	3.0	3.0	3.2	3.4	3.9	4.4
-20～0	2.4	3.0	3.1	3.2	3.5	3.9	4.5
0～20	2.4	3.0	3.1	3.2	3.5	4.0	4.5
20～40	2.4	3.0	3.0	3.2	3.5	4.0	4.5
40～60	2.4	3.1	3.1	3.3	3.5	4.1	4.6
60～80	2.5	3.2	3.2	3.4	3.7	4.3	4.9

Density	
ρ(g/cm^3)	3.90

Coloration Code			
λ_{80}/λ_5	38/34	λ_{70}/λ_5	