H-ZF10	689312	n_d =1.68893	υ_d =31.16	$n_F - n_C$ = 0.022109
		n_e =1.69416	υ_e =30.92	$n_{F'} - n_{C'}$ = 0.022450

Refractive Indices		
	λ (nm)	
n_t	1014.0	1.66709
n_r	706.5	1.67899
n_c	656.3	1.68251
$n_{c'}$	643.8	1.68315
n_{He-Ne}	632.8	1.68445
n_D	589.3	1.68874
n_d	587.6	1.68893
n_e	546.1	1.69416
n_F	486.1	1.70462
$n_{F'}$	480.0	1.70596
n_g	435.8	1.71786
n_h	404.7	1.72964
n_i	365.0	1.75182

Constants of Dispersion Formula	
A_0	2.7617586
A_1	-1.1254039×10^{-2}
A_2	2.8221737×10^{-2}
A_3	1.7540315×10^{-3}
A_4	-1.2127053×10^{-4}
A_5	1.5522384×10^{-5}

Deviation of Relative Partial Dispersions ΔP from the"Normal Line"	
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	0.0063

Relative Partial Dispersions			
$P_{d,c}$	0.2906	$P'_{d,c'}$	0.2415
$P_{e,d}$	0.2363	$P'_{e,d}$	0.2327
$P_{g,F}$	0.5989	$P'_{g,F'}$	0.5299

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

Thermal Properties	
T_g (℃)	554
T_s (℃)	587
$T_{10^{14.5}}$ (℃)	490
$T_{10^{13}}$ (℃)	526
$T_{10^{7.6}}$(℃)	
$\alpha_{20/120℃}$(10^{-7}/K)	98
$\alpha_{100/300℃}$(10^{-7}/K)	119
λ (W/m・K)	

Mechanical Properties	
H_K (10^7Pa)	527
F_A	175
E (10^7Pa)	8570
G (10^7Pa)	3438
μ	0.246
B (10^{-12}/Pa)	

Other Properties	
ρ (g/cm^3)	2.92

Internal Transmittance		
λ (nm)	τ 5 mm	τ 10 mm
2400	0.940	0.884
2200	0.961	0.923
2000	0.981	0.963
1800	0.991	0.983
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	0.998	0.997
700	0.996	0.993
650	0.995	0.991
600	0.996	0.993
550	0.996	0.993
500	0.994	0.988
480	0.992	0.984
460	0.990	0.980
440	0.987	0.975
420	0.982	0.964
400	0.957	0.916
390	0.920	0.847
380	0.83	0.69
370	0.60	0.36
360	0.20	0.04
350	0.02	
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
λ_{80}/λ_5	40/36

Temperature Coefficients of Refractive Index

Rang of Temperature	dn/dt relative(10^{-6}/℃)					
	t	C′	d	e	F′	g
-40～-20	-1.3	-1.1	-0.3	0.3	0.6	1.5
-20～0	-0.9	0.4	0.5	0.7	1.6	2.8
0～20	-0.9	0.1	0.3	0.6	1.3	2.9
20～40	-1.0	0.2	0.4	0.7	2.1	2.8
40～60	-0.9	0.1	0.7	1.2	2.1	3.6
60～80	-0.9	0.2	0.5	1.1	2.4	3.6

CDGM