

ZF10	689312	$n_d = 1.68893$	$\nu_d = 31.18$	$n_F - n_C = 0.022098$
		$n_e = 1.69416$	$\nu_e = 30.95$	$n_{F'} - n_{C'} = 0.022432$

Refractive Indices		
	λ (nm)	
n_t	1014.0	1.66724
n_r	706.5	1.67899
n_c	656.3	1.68250
$n_{c'}$	643.8	1.68351
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	1.70460
$n_{F'}$	480.0	1.70594
n_g	435.8	1.71769
n_h	404.7	1.72917
n_i	365.0	1.75034

Constants of Dispersion Formula	
A_0	2.7592905
A_1	$-9.2045583 \times 10^{-3}$
A_2	2.9316434×10^{-2}
A_3	1.4874080×10^{-3}
A_4	$-7.0522349 \times 10^{-5}$
A_5	9.9538848×10^{-6}

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{F,e}$	0.0000
$\Delta P_{g,F}$	-0.0002

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative($10^{-6}/^\circ C$)					
	t	C'	d	e	F'	g
-40~-20	0.1	1.4	1.9	2.2	3.4	5.2
-20~0	1.3	3.0	3.4	3.9	5.6	7.0
0~20	2.8	4.2	4.6	5.2	6.2	7.8
20~40	3.1	4.5	5.0	5.6	6.6	8.1
40~60	3.4	4.7	5.3	5.9	7.2	8.6
60~80	3.7	5.2	5.7	6.2	7.7	9.6

Relative Partial Dispersions			
$P_{d,c}$	0.2909	$P'_{d,c'}$	0.2418
$P_{e,d}$	0.2365	$P'_{e,d}$	0.2330
$P_{g,F}$	0.5924	$P'_{g,F'}$	0.5238

Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D _W	1
D _A	2

Thermal Properties	
T_g ($^\circ C$)	430
T_s ($^\circ C$)	495
$T_{10}^{14.5}$ ($^\circ C$)	383
T_{10}^{13} ($^\circ C$)	422
$T_{10}^{7.6}$ ($^\circ C$)	594
$\alpha_{20/120^\circ C}$ ($10^{-7}/K$)	79
$\alpha_{100/300^\circ C}$ ($10^{-7}/K$)	92
λ (W/m · K)	

Mechanical Properties	
H_K ($10^7 Pa$)	376
F_A	87
E ($10^7 Pa$)	5562
G ($10^7 Pa$)	2216
μ	0.230
B ($10^{-12}/Pa$)	

Other Properties	
ρ (g/cm^3)	4.21

Internal Transmittance		
λ (nm)	τ 5 mm	τ 10 mm
2400	0.954	0.911
2200	0.963	0.928
2000	0.983	0.966
1800	0.990	0.980
1600	0.997	0.994
1400	0.998	0.997
1200	0.999	0.998
1060	0.999	0.998
1000	0.998	0.997
950	0.998	0.997
900	0.998	0.997
850	0.998	0.996
800	0.997	0.995
700	0.997	0.994
650	0.996	0.993
600	0.996	0.993
550	0.996	0.993
500	0.994	0.989
480	0.993	0.987
460	0.991	0.983
440	0.989	0.978
420	0.985	0.970
400	0.974	0.948
390	0.961	0.923
380	0.940	0.883
370	0.90	0.81
360	0.81	0.65
350	0.61	0.37
340	0.24	0.06
330	0.03	
320		
310		
300		
290		
280		

Coloration Code	
λ_{80}/λ_5	39/34