

<b>ZF8</b>	<b>654337</b>	$n_d = 1.65446$	$v_d = 33.65$	$n_F - n_C = 0.019447$
		$n_e = 1.65907$	$v_e = 33.41$	$n_{F'} - n_{C'} = 0.019728$

Refractive Indices		
	$\lambda$ (nm)	
$n_t$	1014.0	
$n_r$	706.5	1.64565
$n_c$	656.3	1.64878
$n_{c'}$	643.8	1.64967
$n_{He-Ne}$	632.8	1.65050
$n_D$	589.3	1.65429
$n_d$	587.6	1.65446
$n_e$	546.1	1.65907
$n_F$	486.1	1.66822
$n_{F'}$	480.0	1.66939
$n_g$	435.8	1.67966
$n_h$	404.7	1.68965
$n_i$	365.0	1.70788

Constants of Dispersion Formula	
	Formula
$A_0$	2.6567173
$A_1$	$-9.1117044 \times 10^{-3}$
$A_2$	$2.5815197 \times 10^{-2}$
$A_3$	$1.1203564 \times 10^{-3}$
$A_4$	$-4.1066817 \times 10^{-5}$
$A_5$	$6.9242011 \times 10^{-6}$

Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"	
$\Delta P_{F,e}$	-0.0007
$\Delta P_{g,F}$	-0.0001

Temperature Coefficients of Refractive Index						
Rang of Temperature	dn/dt relative( $10^{-6}/^{\circ}C$ )					
	t	C'	d	e	F'	g
-40~-20						
-20~0						
0~20						
20~40						
40~60						
60~80						

Relative Partial Dispersions			
$P_{d,c}$	0.2921	$P'_{d,c'}$	0.2428
$P_{e,d}$	0.2371	$P'_{e,d}$	0.2337
$P_{g,F}$	0.5883	$P'_{g,F'}$	0.5206

Chemical Properties	
	Grade
RC(S)	1
RA(S)	2
D <sub>W</sub>	1
D <sub>A</sub>	2

Thermal Properties	
$T_g$ ( $^{\circ}C$ )	448
$T_s$ ( $^{\circ}C$ )	518
$T_{10}^{14.5}$ ( $^{\circ}C$ )	393
$T_{10}^{13}$ ( $^{\circ}C$ )	436
$T_{10}^{7.6}$ ( $^{\circ}C$ )	
$\alpha_{20/120^{\circ}C}$ ( $10^{-7}/K$ )	80
$\alpha_{100/300^{\circ}C}$ ( $10^{-7}/K$ )	89
$\lambda$ (W/m $\cdot$ K)	

Mechanical Properties	
$H_K$ ( $10^7 Pa$ )	379
$F_A$	
$E$ ( $10^7 Pa$ )	5662
$G$ ( $10^7 Pa$ )	2313
$\mu$	0.224
$B$ ( $10^{-12}/Pa$ )	

Other Properties	
$\rho$ ( $g/cm^3$ )	3.91

Internal Transmittance		
$\lambda$ (nm)	$\tau$ 5 mm	$\tau$ 10 mm
2400	0.948	0.898
2200	0.957	0.916
2000	0.982	0.964
1800	0.990	0.980
1600	0.998	0.997
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	0.998	0.996
650	0.997	0.995
600	0.997	0.995
550	0.997	0.995
500	0.996	0.992
480	0.995	0.990
460	0.993	0.987
440	0.991	0.983
420	0.988	0.976
400	0.979	0.958
390	0.966	0.934
380	0.947	0.897
370	0.918	0.843
360	0.85	0.72
350	0.71	0.51
340	0.42	0.18
330	0.10	0.01
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}/\lambda_5$	38/34