

<b>ZF7LHT</b>	<b>805255</b>	$n_d = 1.80518$	$\nu_d = 25.46$	$n_F - n_C = 0.031620$
		$n_e = 1.81265$	$\nu_e = 25.27$	$n_{F'} - n_{C'} = 0.032161$

Refractive Indices		
	$\lambda$ (nm)	
$n_t$	1014.0	1.77524
$n_r$	706.5	1.79120
$n_c$	656.3	1.79611
$n_{c'}$	643.8	1.79752
$n_{He-Ne}$	632.8	1.79885
$n_D$	589.3	1.80491
$n_d$	587.6	1.80518
$n_e$	546.1	1.81265
$n_F$	486.1	1.82773
$n_{F'}$	480.0	1.82968
$n_g$	435.8	1.84701
$n_h$	404.7	1.86427
$n_i$	365.0	1.89697

Constants of Dispersion Formula	
$A_0$	3.1172453
$A_1$	$-9.7795868 \times 10^{-3}$
$A_2$	$4.3175256 \times 10^{-2}$
$A_3$	$2.5227958 \times 10^{-3}$
$A_4$	$-1.1739974 \times 10^{-4}$
$A_5$	$2.0788116 \times 10^{-5}$

Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"	
$\Delta P_{F,e}$	0.0015
$\Delta P_{g,F}$	0.0074

Temperature Coefficients of Refractive Index						
Rang of Temperature	$dn/dt$ relative( $10^{-6}/^{\circ}C$ )					
	t	C'	d	e	F'	g
-40~-20	5.0	6.8	7.6	8.5	11.1	11.7
-20~0	5.2	7.4	8.0	8.6	11.1	14.5
0~20	5.6	8.0	8.9	9.8	11.6	14.9
20~40	5.7	8.5	9.3	10.4	12.2	15.1
40~60	6.0	9.0	9.6	10.8	12.8	15.6
60~80	7.0	9.2	9.7	11.2	14.1	16.6

Relative Partial Dispersions			
$P_{d,c}$	0.2870	$P'_{d,c'}$	0.2384
$P_{e,d}$	0.2360	$P'_{e,d}$	0.2320
$P_{g,F}$	0.6097	$P'_{g,F'}$	0.5389

Chemical Properties	
	Grade
RC(S)	1
RA(S)	3
D <sub>W</sub>	1
D <sub>A</sub>	4

Thermal Properties	
$T_g$ ( $^{\circ}C$ )	430
$T_s$ ( $^{\circ}C$ )	465
$T_{10}^{14.5}$ ( $^{\circ}C$ )	392
$T_{10}^{13}$ ( $^{\circ}C$ )	423
$T_{10}^{7.6}$ ( $^{\circ}C$ )	549
$\alpha_{20/120^{\circ}C}$ ( $10^{-7}/K$ )	82
$\alpha_{100/300^{\circ}C}$ ( $10^{-7}/K$ )	91
$\lambda$ (W/m · K)	

Mechanical Properties	
$H_K$ ( $10^7 Pa$ )	330
$F_A$	143
$E$ ( $10^7 Pa$ )	5484
$G$ ( $10^7 Pa$ )	2237
$\mu$	0.226
$B$ ( $10^{-12}/Pa$ )	

Other Properties	
$\rho$ ( $g/cm^3$ )	5.19

Internal Transmittance		
$\lambda$ (nm)	$\tau$ 5 mm	$\tau$ 10 mm
2400	0.961	0.923
2200	0.975	0.951
2000	0.987	0.975
1800	0.993	0.987
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	0.998	0.996
650	0.997	0.995
600	0.997	0.995
550	0.997	0.994
500	0.995	0.991
480	0.995	0.990
460	0.993	0.986
440	0.989	0.979
420	0.981	0.962
400	0.954	0.911
390	0.921	0.848
380	0.85	0.72
370	0.68	0.46
360	0.33	0.11
350		
340		
330		
320		
310		
300		
290		
280		

Coloration Code	
$\lambda_{80}/\lambda_5$	42/36