

## N-SF15 699302.292

$n_d = 1.69892$	$v_d = 30.20$	$n_F - n_C = 0.023142$
$n_e = 1.70438$	$v_e = 29.96$	$n_{F'} - n_{C'} = 0.023511$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.65267
$n_{1970.1}$	1970.1	1.65899
$n_{1529.6}$	1529.6	1.66616
$n_{1060.0}$	1060.0	1.67494
$n_t$	1014.0	1.67609
$n_s$	852.1	1.68122
$n_r$	706.5	1.68854
$n_C$	656.3	1.69222
$n_{C'}$	643.8	1.69326
$n_{632.8}$	632.8	1.69425
$n_D$	589.3	1.69872
$n_d$	587.6	1.69892
$n_e$	546.1	1.70438
$n_F$	486.1	1.71536
$n_{F'}$	480.0	1.71677
$n_g$	435.8	1.72933
$n_h$	404.7	1.74182
$n_i$	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.764	0.510
2325	0.837	0.640
1970	0.954	0.890
1530	0.990	0.976
1060	0.998	0.996
700	0.995	0.988
660	0.993	0.983
620	0.994	0.984
580	0.994	0.986
546	0.994	0.985
500	0.988	0.970
460	0.977	0.943
436	0.964	0.912
420	0.941	0.860
405	0.887	0.740
400	0.857	0.680
390	0.746	0.480
380	0.525	0.200
370	0.158	0.010
365	0.044	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2216
$P_{C,s}$	0.4751
$P_{d,C}$	0.2897
$P_{e,d}$	0.2360
$P_{g,F}$	0.6038
$P_{i,h}$	
$P'_{s,t}$	0.2181
$P'_{C',s}$	0.5122
$P'_{d,C'}$	0.2406
$P'_{e,d}$	0.2323
$P'_{g,F'}$	0.5341
$P'_{i,h}$	

### Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"

$\Delta P_{C,t}$	0.0085
$\Delta P_{C,s}$	0.0018
$\Delta P_{F,e}$	0.0018
$\Delta P_{g,F}$	0.0108
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.57055634
$B_2$	0.218987094
$B_3$	1.50824017
$C_1$	0.0116507014
$C_2$	0.0597856897
$C_3$	132.709339

Constants of Dispersion $dn/dT$	
$D_0$	$-7.15 \cdot 10^{-7}$
$D_1$	$1.04 \cdot 10^{-8}$
$D_2$	$-2.62 \cdot 10^{-11}$
$E_0$	$8.56 \cdot 10^{-7}$
$E_1$	$1.29 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.281

Color Code	
$\lambda_{80}/\lambda_5$	42/37
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	8.0
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	9.3
$T_g [^\circ C]$	580
$T_{10}^{13.0} [^\circ C]$	578
$T_{10}^{7.6} [^\circ C]$	692
$c_p [J/(g \cdot K)]$	0.760
$\lambda [W/(m \cdot K)]$	1.040
$\rho [g/cm^3]$	2.92
$E [10^3 N/mm^2]$	90
$\mu$	0.243
$K [10^{-6} mm^2/N]$	3.04
$HK_{0.1/20}$	610
$HG$	3
$CR$	1
$FR$	0
$SR$	1
$AR$	1
$PR$	1

Temperature Coefficients of Refractive Index						
[ $^\circ C$ ]	$\Delta n_{rel}/\Delta T [10^{-6}/K]$			$\Delta n_{abs}/\Delta T [10^{-6}/K]$		
	1060.0	e	g	1060.0	e	g
-40/ -20	1.6	3.1	5.0	-0.7	0.8	2.6
+20/ +40	1.6	3.4	5.8	0.2	2.0	4.3
+60/ +80	1.7	3.7	6.4	0.6	2.6	5.2