

## 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	

Constants of Dispersion Formula	
$B_1$	1.57055634
$B_2$	0.218987094
$B_3$	1.508240170
$C_1$	0.01165070140
$C_2$	0.0597856897
$C_3$	132.7093390

Constants of Formula for $dn/dT$	
$D_0$	-7.15E-07
$D_1$	1.04E-08
$D_2$	-2.62E-11
$E_0$	8.56E-07
$E_1$	1.29E-09
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.281

Temperature Coefficients of the Refractive Index						
[°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

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.760	0.510
2325	0.840	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	0.940
436	0.964	0.910
420	0.940	0.860
405	0.890	0.740
400	0.860	0.680
390	0.750	0.480
380	0.530	0.200
370	0.160	0.010
365	0.040	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	42/37

Remarks

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 Dispersion $\Delta P$ 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
$\Delta P_{i,g}$	

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	8.0
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.3
$T_g$ [°C]	580
$T_{10}^{13}$ [°C]	578
$T_{10}^{7.6}$ [°C]	692
$c_p$ [J/(g·K)]	0.760
$\lambda$ [W/(m·K)]	1.040
$\rho$ [g/cm <sup>3</sup> ]	2.92
$E$ [ $10^3$ N/mm <sup>2</sup> ]	90
$\mu$	0.243
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	3.04
$HK_{0.1/20}$	610
HG	3
CR	1
FR	0
SR	1
AR	1
PR	1