

## N-SF64 706302.299

$n_d = 1.70591$	$v_d = 30.23$	$n_F - n_C = 0.023350$
$n_e = 1.71142$	$v_e = 29.99$	$n_{F'} - n_{C'} = 0.023720$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.65993
$n_{1970.1}$	1970.1	1.66607
$n_{1529.6}$	1529.6	1.67306
$n_{1060.0}$	1060.0	1.68176
$n_t$	1014.0	1.68291
$n_s$	852.1	1.68806
$n_r$	706.5	1.69544
$n_C$	656.3	1.69914
$n_{C'}$	643.8	1.70020
$n_{632.8}$	632.8	1.70119
$n_D$	589.3	1.70571
$n_d$	587.6	1.70591
$n_e$	546.1	1.71142
$n_F$	486.1	1.72249
$n_{F'}$	480.0	1.72392
$n_g$	435.8	1.73657
$n_h$	404.7	1.74912
$n_i$	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	0.770	0.520
2325	0.837	0.640
1970	0.950	0.880
1530	0.992	0.979
1060	0.998	0.996
700	0.994	0.985
660	0.992	0.980
620	0.992	0.981
580	0.994	0.984
546	0.993	0.982
500	0.984	0.961
460	0.971	0.930
436	0.957	0.895
420	0.934	0.843
405	0.882	0.730
400	0.852	0.670
390	0.746	0.480
380	0.546	0.220
370	0.209	0.020
365	0.078	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2204
$P_{C,s}$	0.4746
$P_{d,C}$	0.2898
$P_{e,d}$	0.2361
$P_{g,F}$	0.6028
$P_{i,h}$	
$P'_{s,t}$	0.2169
$P'_{C',s}$	0.5117
$P'_{d,C'}$	0.2407
$P'_{e,d}$	0.2324
$P'_{g,F'}$	0.5333
$P'_{i,h}$	

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

$\Delta P_{C,t}$	0.0066
$\Delta P_{C,s}$	0.0012
$\Delta P_{F,e}$	0.0017
$\Delta P_{g,F}$	0.0099
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.59163762
$B_2$	0.219908428
$B_3$	1.46929315
$C_1$	0.0118623434
$C_2$	0.0594585499
$C_3$	133.310762

Constants of Dispersion $dn/dT$	
$D_0$	$-2.06 \cdot 10^{-6}$
$D_1$	$9.78 \cdot 10^{-9}$
$D_2$	$-1.67 \cdot 10^{-11}$
$E_0$	$8.67 \cdot 10^{-7}$
$E_1$	$1.23 \cdot 10^{-9}$
$\lambda_{TK} [\mu m]$	0.279

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

Remarks	
inquiry glass	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	8.5
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	9.8
$T_g [^\circ C]$	572
$T_{10}^{13.0} [^\circ C]$	576
$T_{10}^{7.6} [^\circ C]$	688
$c_p [J/(g \cdot K)]$	0.750
$\lambda [W/(m \cdot K)]$	0.980
$\rho [g/cm^3]$	2.99
$E [10^3 N/mm^2]$	88
$\mu$	0.245
$K [10^{-6} mm^2/N]$	2.95
$HK_{0.1/20}$	620
<b>HG</b>	4
<b>CR</b>	1
<b>FR</b>	0
<b>SR</b>	1
<b>AR</b>	1.2
<b>PR</b>	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	0.9	2.4	4.4	-1.3	0.1	2.0
+20/ +40	0.9	2.7	5.1	-0.6	1.2	3.5
+60/ +80	1.0	3.0	5.6	-0.1	1.9	4.4