

## N-SK15 623580.362

$n_d = 1.62296$	$v_d = 58.02$	$n_F - n_C = 0.010737$
$n_e = 1.62552$	$v_e = 57.75$	$n_{F'} - n_{C'} = 0.010832$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.59268
$n_{1970.1}$	1970.1	1.59822
$n_{1529.6}$	1529.6	1.60411
$n_{1060.0}$	1060.0	1.61027
$n_t$	1014.0	1.61098
$n_s$	852.1	1.61396
$n_r$	706.5	1.61785
$n_C$	656.3	1.61970
$n_{C'}$	643.8	1.62022
$n_{632.8}$	632.8	1.62070
$n_D$	589.3	1.62286
$n_d$	587.6	1.62296
$n_e$	546.1	1.62552
$n_F$	486.1	1.63044
$n_{F'}$	480.0	1.63105
$n_g$	435.8	1.63629
$n_h$	404.7	1.64116
$n_i$	365.0	1.64947
$n_{334.1}$	334.1	1.65846
$n_{312.6}$	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	0.672	0.370
2325	0.826	0.620
1970	0.959	0.900
1530	0.990	0.975
1060	0.996	0.991
700	0.998	0.994
660	0.997	0.992
620	0.997	0.992
580	0.997	0.993
546	0.997	0.993
500	0.996	0.990
460	0.993	0.982
436	0.991	0.978
420	0.990	0.974
405	0.986	0.966
400	0.984	0.960
390	0.976	0.941
380	0.963	0.910
370	0.937	0.850
365	0.915	0.800
350	0.795	0.563
334	0.504	0.180
320	0.144	
310	0.010	
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2770
$P_{C,s}$	0.5348
$P_{d,C}$	0.3036
$P_{e,d}$	0.2384
$P_{g,F}$	0.5453
$P_{i,h}$	0.7742
$P'_{s,t}$	0.2746
$P'_{C',s}$	0.5780
$P'_{d,C'}$	0.2531
$P'_{e,d}$	0.2363
$P'_{g,F'}$	0.4840
$P'_{i,h}$	0.7674

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

$\Delta P_{C,t}$	-0.0084
$\Delta P_{C,s}$	-0.0033
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	-0.0009
$\Delta P_{i,g}$	-0.0102

Constants of Dispersion Formula	
$B_1$	1.30417786
$B_2$	0.28584116
$B_3$	0.974781572
$C_1$	0.00695051276
$C_2$	0.0232023703
$C_3$	99.016884

Constants of Dispersion $dn/dT$	
$D_0$	$4.92 \cdot 10^{-7}$
$D_1$	$1.20 \cdot 10^{-8}$
$D_2$	$-2.96 \cdot 10^{-12}$
$E_0$	$4.66 \cdot 10^{-7}$
$E_1$	$5.16 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.179

Color Code	
$\lambda_{80}/\lambda_5$	36/31
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	
inquiry glass	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.7
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.6
$T_g [^\circ C]$	641
$T_{10}^{13.0} [^\circ C]$	634
$T_{10}^{7.6} [^\circ C]$	752
$c_p [J/(g \cdot K)]$	0.570
$\lambda [W/(m \cdot K)]$	0.770
$\rho [g/cm^3]$	3.62
$E [10^3 N/mm^2]$	84
$\mu$	0.265
$K [10^{-6} mm^2/N]$	1.93
$HK_{0.1/20}$	620
<b>HG</b>	3
<b>CR</b>	3
<b>FR</b>	3
<b>SR</b>	52.2
<b>AR</b>	2
<b>PR</b>	3.2

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	2.0	2.6	3.2	-0.2	0.4	1.0
+20/ +40	2.0	2.7	3.4	0.6	1.3	1.9
+60/ +80	2.1	2.9	3.7	1.1	1.8	2.5