

## N-SK4 613586.354

$n_d = 1.61272$	$v_d = 58.63$	$n_F - n_C = 0.010450$
$n_e = 1.61521$	$v_e = 58.37$	$n_{F'} - n_{C'} = 0.010541$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.58282
$n_{1970.1}$	1970.1	1.58835
$n_{1529.6}$	1529.6	1.59422
$n_{1060.0}$	1060.0	1.60032
$n_t$	1014.0	1.60102
$n_s$	852.1	1.60393
$n_r$	706.5	1.60774
$n_C$	656.3	1.60954
$n_{C'}$	643.8	1.61005
$n_{632.8}$	632.8	1.61052
$n_D$	589.3	1.61262
$n_d$	587.6	1.61272
$n_e$	546.1	1.61521
$n_F$	486.1	1.61999
$n_{F'}$	480.0	1.62059
$n_g$	435.8	1.62568
$n_h$	404.7	1.63042
$n_i$	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	0.686	0.390
2325	0.826	0.620
1970	0.959	0.900
1530	0.991	0.977
1060	0.997	0.993
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.997	0.992
460	0.994	0.985
436	0.993	0.983
420	0.993	0.983
405	0.992	0.979
400	0.990	0.975
390	0.984	0.960
380	0.971	0.930
370	0.946	0.870
365	0.928	0.830
350	0.821	0.610
334	0.525	0.200
320	0.102	
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2792
$P_{C,s}$	0.5366
$P_{d,C}$	0.3039
$P_{e,d}$	0.2384
$P_{g,F}$	0.5448
$P_{i,h}$	
$P'_{s,t}$	0.2768
$P'_{C',s}$	0.5799
$P'_{d,C'}$	0.2533
$P'_{e,d}$	0.2364
$P'_{g,F'}$	0.4835
$P'_{i,h}$	

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

$\Delta P_{C,t}$	-0.0073
$\Delta P_{C,s}$	-0.0030
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	-0.0004
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.32993741
$B_2$	0.228542996
$B_3$	0.988465211
$C_1$	0.00716874107
$C_2$	0.0246455892
$C_3$	100.886364

Constants of Dispersion $dn/dT$	
$D_0$	$7.96 \cdot 10^{-7}$
$D_1$	$1.30 \cdot 10^{-8}$
$D_2$	$-1.31 \cdot 10^{-11}$
$E_0$	$4.36 \cdot 10^{-7}$
$E_1$	$6.01 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.179

Color Code	
$\lambda_{80}/\lambda_5$	36/32
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.5
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.4
$T_g [^\circ C]$	658
$T_{10}^{13.0} [^\circ C]$	646
$T_{10}^{7.6} [^\circ C]$	769
$c_p [J/(g \cdot K)]$	0.570
$\lambda [W/(m \cdot K)]$	0.830
$\rho [g/cm^3]$	3.54
$E [10^3 N/mm^2]$	84
$\mu$	0.261
$K [10^{-6} mm^2/N]$	1.92
$HK_{0.1/20}$	580
<b>HG</b>	3
<b>CR</b>	3
<b>FR</b>	1
<b>SR</b>	51.2
<b>AR</b>	2
<b>PR</b>	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	3.1	-0.1	0.4	0.9
+20/ +40	2.1	2.8	3.4	0.7	1.4	2.0
+60/ +80	2.3	3.0	3.7	1.2	1.9	2.6