

## N-SSK5 658509.371

$n_d = 1.65844$	$v_d = 50.88$	$n_F - n_C = 0.012940$
$n_e = 1.66152$	$v_e = 50.59$	$n_{F'} - n_{C'} = 0.013075$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.62581
$n_{1970.1}$	1970.1	1.63128
$n_{1529.6}$	1529.6	1.63720
$n_{1060.0}$	1060.0	1.64371
$n_t$	1014.0	1.64450
$n_s$	852.1	1.64785
$n_r$	706.5	1.65237
$n_C$	656.3	1.65455
$n_{C'}$	643.8	1.65517
$n_{632.8}$	632.8	1.65574
$n_D$	589.3	1.65833
$n_d$	587.6	1.65844
$n_e$	546.1	1.66152
$n_F$	486.1	1.66749
$n_{F'}$	480.0	1.66824
$n_g$	435.8	1.67471
$n_h$	404.7	1.68079
$n_i$	365.0	1.69139
$n_{334.1}$	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	0.727	0.450
2325	0.847	0.660
1970	0.963	0.910
1530	0.992	0.980
1060	0.996	0.990
700	0.997	0.993
660	0.997	0.992
620	0.997	0.992
580	0.997	0.993
546	0.996	0.990
500	0.993	0.982
460	0.987	0.968
436	0.982	0.956
420	0.976	0.940
405	0.963	0.910
400	0.959	0.900
390	0.941	0.860
380	0.896	0.760
370	0.804	0.580
365	0.727	0.450
350	0.336	0.060
334	0.017	
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2592
$P_{C,s}$	0.5181
$P_{d,C}$	0.3003
$P_{e,d}$	0.2380
$P_{g,F}$	0.5575
$P_{i,h}$	0.8192
$P'_{s,t}$	0.2566
$P'_{C',s}$	0.5598
$P'_{d,C'}$	0.2502
$P'_{e,d}$	0.2355
$P'_{g,F'}$	0.4944
$P'_{i,h}$	0.8108

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

$\Delta P_{C,t}$	-0.0090
$\Delta P_{C,s}$	-0.0034
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	-0.0007
$\Delta P_{i,g}$	-0.0081

Constants of Dispersion Formula	
$B_1$	1.59222659
$B_2$	0.103520774
$B_3$	1.05174016
$C_1$	0.00920284626
$C_2$	0.0423530072
$C_3$	106.927374

Constants of Dispersion $dn/dT$	
$D_0$	$7.29 \cdot 10^{-7}$
$D_1$	$1.17 \cdot 10^{-8}$
$D_2$	$-1.50 \cdot 10^{-11}$
$E_0$	$6.08 \cdot 10^{-7}$
$E_1$	$7.66 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.189

Color Code	
$\lambda_{80}/\lambda_5$	38/34
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.8
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	8.0
$T_g [^\circ C]$	645
$T_{10}^{13.0} [^\circ C]$	637
$T_{10}^{7.6} [^\circ C]$	751
$c_p [J/(g \cdot K)]$	0.574
$\lambda [W/(m \cdot K)]$	
$\rho [g/cm^3]$	3.71
$E [10^3 N/mm^2]$	88
$\mu$	0.278
$K [10^{-6} mm^2/N]$	1.90
$HK_{0.1/20}$	590
<b>HG</b>	5
<b>CR</b>	2
<b>FR</b>	3
<b>SR</b>	52.2
<b>AR</b>	2.2
<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	2.2	3.0	3.9	0.0	0.8	1.6
+20/ +40	2.2	3.2	4.2	0.8	1.8	2.7
+60/ +80	2.4	3.5	4.5	1.2	2.3	3.4