

## N-SSK8 618498.327

$n_d = 1.61773$	$v_d = 49.83$	$n_F - n_C = 0.012397$
$n_e = 1.62068$	$v_e = 49.54$	$n_{F'} - n_{C'} = 0.012529$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.58594
$n_{1970.1}$	1970.1	1.59137
$n_{1529.6}$	1529.6	1.59723
$n_{1060.0}$	1060.0	1.60360
$n_t$	1014.0	1.60436
$n_s$	852.1	1.60759
$n_r$	706.5	1.61192
$n_C$	656.3	1.61401
$n_{C'}$	643.8	1.61460
$n_{632.8}$	632.8	1.61515
$n_D$	589.3	1.61762
$n_d$	587.6	1.61773
$n_e$	546.1	1.62068
$n_F$	486.1	1.62641
$n_{F'}$	480.0	1.62713
$n_g$	435.8	1.63335
$n_h$	404.7	1.63923
$n_i$	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	0.733	0.460
2325	0.847	0.660
1970	0.959	0.900
1530	0.992	0.980
1060	0.997	0.993
700	0.998	0.994
660	0.996	0.991
620	0.996	0.990
580	0.997	0.992
546	0.997	0.992
500	0.994	0.984
460	0.987	0.969
436	0.982	0.955
420	0.975	0.938
405	0.959	0.900
400	0.950	0.880
390	0.919	0.810
380	0.847	0.660
370	0.727	0.450
365	0.626	0.310
350	0.194	0.010
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2606
$P_{C,s}$	0.5179
$P_{d,C}$	0.2999
$P_{e,d}$	0.2378
$P_{g,F}$	0.5602
$P_{i,h}$	
$P'_{s,t}$	0.2579
$P'_{C',s}$	0.5594
$P'_{d,C'}$	0.2498
$P'_{e,d}$	0.2353
$P'_{g,F'}$	0.4967
$P'_{i,h}$	

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

$\Delta P_{C,t}$	-0.0028
$\Delta P_{C,s}$	-0.0012
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0002
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.44857867
$B_2$	0.117965926
$B_3$	1.06937528
$C_1$	0.00869310149
$C_2$	0.0421566593
$C_3$	111.300666

Constants of Dispersion $dn/dT$	
$D_0$	$5.34 \cdot 10^{-7}$
$D_1$	$1.27 \cdot 10^{-8}$
$D_2$	$-1.75 \cdot 10^{-11}$
$E_0$	$5.40 \cdot 10^{-7}$
$E_1$	$7.05 \cdot 10^{-10}$
$\lambda_{TK}$ [ $\mu m$ ]	0.224

Color Code	
$\lambda_{80}/\lambda_5$	39/35
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C}$ [ $10^{-6}/K$ ]	7.2
$\alpha_{+20/+300^\circ C}$ [ $10^{-6}/K$ ]	8.2
$T_g$ [ $^\circ C$ ]	616
$T_{10}^{13.0}$ [ $^\circ C$ ]	604
$T_{10}^{7.6}$ [ $^\circ C$ ]	742
$c_p$ [ $J/(g \cdot K)$ ]	0.640
$\lambda$ [ $W/(m \cdot K)$ ]	0.840
$\rho$ [ $g/cm^3$ ]	3.27
$E$ [ $10^3 N/mm^2$ ]	84
$\mu$	0.251
$K$ [ $10^{-6} mm^2/N$ ]	2.36
$HK_{0.1/20}$	570
$HG$	3
$CR$	1
$FR$	0
$SR$	1
$AR$	1.3
$PR$	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	1.9	2.7	3.5	-0.2	0.5	1.3
+20/ +40	2.0	2.9	3.9	0.6	1.5	2.4
+60/ +80	2.2	3.2	4.2	1.1	2.1	3.1