

## N-K5 522595.259

$n_d = 1.52249$	$v_d = 59.48$	$n_F - n_C = 0.008784$
$n_e = 1.52458$	$v_e = 59.22$	$n_{F'} - n_{C'} = 0.008858$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.49656
$n_{1970.1}$	1970.1	1.50146
$n_{1529.6}$	1529.6	1.50664
$n_{1060.0}$	1060.0	1.51197
$n_t$	1014.0	1.51257
$n_s$	852.1	1.51507
$n_r$	706.5	1.51829
$n_C$	656.3	1.51982
$n_{C'}$	643.8	1.52024
$n_{632.8}$	632.8	1.52064
$n_D$	589.3	1.52241
$n_d$	587.6	1.52249
$n_e$	546.1	1.52458
$n_F$	486.1	1.52860
$n_{F'}$	480.0	1.52910
$n_g$	435.8	1.53338
$n_h$	404.7	1.53734
$n_i$	365.0	1.54412
$n_{334.1}$	334.1	1.55145
$n_{312.6}$	312.6	1.55821
$n_{296.7}$	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	0.776	0.530
2325	0.847	0.660
1970	0.946	0.870
1530	0.994	0.986
1060	0.998	0.995
700	0.998	0.994
660	0.997	0.992
620	0.997	0.993
580	0.998	0.995
546	0.998	0.995
500	0.997	0.993
460	0.996	0.991
436	0.996	0.991
420	0.996	0.991
405	0.996	0.989
400	0.995	0.988
390	0.994	0.984
380	0.991	0.977
370	0.985	0.962
365	0.982	0.956
350	0.950	0.880
334	0.831	0.630
320	0.536	0.210
310	0.221	0.020
300	0.058	
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2843
$P_{C,s}$	0.5404
$P_{d,C}$	0.3044
$P_{e,d}$	0.2384
$P_{g,F}$	0.5438
$P_{i,h}$	0.7717
$P'_{s,t}$	0.2819
$P'_{C',s}$	0.5839
$P'_{d,C'}$	0.2538
$P'_{e,d}$	0.2364
$P'_{g,F'}$	0.4828
$P'_{i,h}$	0.7653

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

$\Delta P_{C,t}$	-0.0025
$\Delta P_{C,s}$	-0.0012
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0000
$\Delta P_{i,g}$	-0.0019

Constants of Dispersion Formula	
$B_1$	1.08511833
$B_2$	0.199562005
$B_3$	0.930511663
$C_1$	0.00661099503
$C_2$	0.024110866
$C_3$	111.982777

Constants of Dispersion $dn/dT$	
$D_0$	$-4.13 \cdot 10^{-7}$
$D_1$	$1.03 \cdot 10^{-8}$
$D_2$	$-3.40 \cdot 10^{-11}$
$E_0$	$4.73 \cdot 10^{-7}$
$E_1$	$5.19 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.213

Color Code	
$\lambda_{80}/\lambda_5$	34/30
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	8.2
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	9.6
$T_g [^\circ C]$	546
$T_{10}^{13.0} [^\circ C]$	540
$T_{10}^{7.6} [^\circ C]$	720
$c_p [J/(g \cdot K)]$	0.783
$\lambda [W/(m \cdot K)]$	0.950
$\rho [g/cm^3]$	2.59
$E [10^3 N/mm^2]$	71
$\mu$	0.224
$K [10^{-6} mm^2/N]$	3.03
$HK_{0.1/20}$	530
<b>HG</b>	3
<b>CR</b>	1
<b>FR</b>	0
<b>SR</b>	1
<b>AR</b>	1
<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	1.5	2.1	2.6	-0.6	0.0	0.5
+20/ +40	1.4	2.1	2.7	0.1	0.7	1.4
+60/ +80	1.4	2.1	2.8	0.4	1.1	1.8