

## N-LAK33B 755523.422

$n_d = 1.75500$

$v_d = 52.30$

$n_F - n_C = 0.014436$

$n_e = 1.75844$

$v_e = 52.07$

$n_F - n_C = 0.014566$

### Refractive Indices

	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.71387
$n_{1970.1}$	1970.1	1.72155
$n_{1529.6}$	1529.6	1.72962
$n_{1060.0}$	1060.0	1.73796
$n_t$	1014.0	1.73892
$n_s$	852.1	1.74292
$n_r$	706.5	1.74814
$n_C$	656.3	1.75062
$n_{C'}$	643.8	1.75132
$n_{632.8}$	632.8	1.75197
$n_D$	589.3	1.75487
$n_d$	587.6	1.75500
$n_e$	546.1	1.75844
$n_F$	486.1	1.76506
$n_{F'}$	480.0	1.76589
$n_g$	435.8	1.77296
$n_h$	404.7	1.77954
$n_i$	365.0	1.79082
$n_{334.1}$	334.1	1.80306
$n_{312.6}$	312.6	1.81436
$n_{296.7}$	296.7	1.82471
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

### Constants of Dispersion Formula

$B_1$	1.422886010
$B_2$	0.593661336
$B_3$	1.161352600
$C_1$	0.006702835
$C_2$	0.0219416210
$C_3$	80.74077010

### Constants of Formula for $dn/dT$

$D_0$	2.77E-06
$D_1$	1.24E-08
$D_2$	1.22E-11
$E_0$	5.19E-07
$E_1$	6.02E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.184

### Temperature Coefficients of the Refractive Index

[°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	3.5	4.4	5.2	1.2	2.0	2.8
+20/+40	3.5	4.5	5.4	2.0	3.0	3.9
+60/+80	3.9	4.9	5.9	2.7	3.7	4.7

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.400	0.100
2325	0.680	0.380
1970	0.940	0.850
1530	0.985	0.963
1060	0.998	0.995
700	0.998	0.995
660	0.998	0.994
620	0.997	0.993
580	0.998	0.994
546	0.998	0.995
500	0.997	0.993
460	0.994	0.986
436	0.992	0.979
420	0.988	0.971
405	0.982	0.956
400	0.980	0.950
390	0.971	0.930
380	0.954	0.890
370	0.930	0.830
365	0.910	0.790
350	0.820	0.610
334	0.660	0.350
320	0.460	0.140
310	0.280	0.030
300	0.220	0.010
290	0.120	0.000
280	0.020	
270	0.000	
260		
250		

### Color Code

$\lambda_{80} / \lambda_5$  37/28

### Remarks

### Relative Partial Dispersion P

$P_{s,t}$	0.2768
$P_{C,s}$	0.5337
$P_{d,C}$	0.3032
$P_{e,d}$	0.2383
$P_{g,F}$	0.5473
$P_{i,h}$	0.7813

### Relative Partial Dispersion P'

$P'_{s,t}$	0.2744
$P'_{C,s}$	0.5767
$P'_{d,C'}$	0.2527
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.4857
$P'_{i,h}$	0.7743

### Deviation of Rel. Partial Disp.

#### $\Delta P$ from the normal line

$\Delta P_{C,t}$	0.0175
$\Delta P_{C,s}$	0.0089
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0085
$\Delta P_{i,g}$	-0.0484

### Chemical Properties

CR	1
FR	1
SR	51.3
AR	1
PR	2
SR-J	4
WR-J	1

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	5.8
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	7.1
$T_g$ [°C]	668
$T_{10}^{13}$ [°C]	670
$T_{10}^{7.6}$ [°C]	750
$c_p$ [J/(g*K)]	0.560
$\lambda$ [W/(m*K)]	0.890
AT [°C]	702
$\rho$ [g/cm <sup>3</sup> ]	4.22
E [ $10^3$ N/mm <sup>2</sup> ]	122
$\mu$	0.295
K [ $10^{-6}$ mm <sup>2</sup> /N]	1.43
HK <sub>0.1/20</sub>	797