

## N-LAK7 652585.384

$n_d = 1.65160$	$v_d = 58.52$	$n_F - n_C = 0.011135$
$n_e = 1.65425$	$v_e = 58.26$	$n_{F'} - n_{C'} = 0.011229$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.61875
$n_{1970.1}$	1970.1	1.62499
$n_{1529.6}$	1529.6	1.63156
$n_{1060.0}$	1060.0	1.63828
$n_t$	1014.0	1.63904
$n_s$	852.1	1.64220
$n_r$	706.5	1.64628
$n_C$	656.3	1.64821
$n_{C'}$	643.8	1.64875
$n_{632.8}$	632.8	1.64925
$n_D$	589.3	1.65150
$n_d$	587.6	1.65160
$n_e$	546.1	1.65425
$n_F$	486.1	1.65934
$n_{F'}$	480.0	1.65998
$n_g$	435.8	1.66539
$n_h$	404.7	1.67042
$n_i$	365.0	1.67897
$n_{334.1}$	334.1	1.68820
$n_{312.6}$	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	0.550	0.224
2325	0.754	0.494
1970	0.943	0.863
1530	0.989	0.972
1060	0.999	0.998
700	0.999	0.997
660	0.998	0.996
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.997	0.992
460	0.994	0.984
436	0.992	0.980
420	0.991	0.977
405	0.989	0.973
400	0.988	0.970
390	0.984	0.961
380	0.978	0.945
370	0.966	0.917
365	0.956	0.894
350	0.908	0.785
334	0.799	0.570
320	0.619	0.301
310	0.415	0.111
300	0.191	0.016
290	0.050	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2835
$P_{C,s}$	0.5400
$P_{d,C}$	0.3044
$P_{e,d}$	0.2385
$P_{g,F}$	0.5433
$P_{i,h}$	0.7687
$P'_{s,t}$	0.2812
$P'_{C',s}$	0.5836
$P'_{d,C'}$	0.2538
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4823
$P'_{i,h}$	0.7622

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

$\Delta P_{C,t}$	0.0010
$\Delta P_{C,s}$	0.0007
$\Delta P_{F,e}$	-0.0005
$\Delta P_{g,F}$	-0.0021
$\Delta P_{i,g}$	-0.0140

Constants of Dispersion Formula	
$B_1$	1.23679889
$B_2$	0.445051837
$B_3$	1.01745888
$C_1$	0.00610105538
$C_2$	0.0201388334
$C_3$	90.638038

Constants of Dispersion $dn/dT$	
$D_0$	$-3.40 \cdot 10^{-6}$
$D_1$	$1.17 \cdot 10^{-8}$
$D_2$	$2.38 \cdot 10^{-11}$
$E_0$	$4.96 \cdot 10^{-7}$
$E_1$	$4.44 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.107

Color Code	
$\lambda_{80}/\lambda_5$	35/29
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	7.1
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	8.2
$T_g [^\circ C]$	618
$T_{10}^{13.0} [^\circ C]$	626
$T_{10}^{7.6} [^\circ C]$	716
$c_p [J/(g \cdot K)]$	0.530
$\lambda [W/(m \cdot K)]$	0.740
$\rho [g/cm^3]$	3.84
$E [10^3 N/mm^2]$	90
$\mu$	0.277
$K [10^{-6} mm^2/N]$	1.65
$HK_{0.1/20}$	600
$HG$	5
$CR$	3
$FR$	2
$SR$	53.3
$AR$	3.3
$PR$	4.3

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	0.2	0.8	1.3	-2.0	-1.5	-1.0
+20/ +40	0.0	0.7	1.3	-1.4	-0.7	-0.2
+60/ +80	0.3	1.0	1.7	-0.8	-0.1	0.5