

N-LAK22 651559.377

$n_d = 1.65113$

$v_d = 55.89$

$n_F - n_C = 0.011650$

$n_e = 1.65391$

$v_e = 55.63$

$n_F - n_C = 0.011755$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.61915
$n_{1970.1}$	1970.1	1.62488
$n_{1529.6}$	1529.6	1.63100
$n_{1060.0}$	1060.0	1.63747
n_t	1014.0	1.63823
n_s	852.1	1.64141
n_r	706.5	1.64560
n_C	656.3	1.64760
$n_{C'}$	643.8	1.64816
$n_{632.8}$	632.8	1.64868
n_D	589.3	1.65103
n_d	587.6	1.65113
n_e	546.1	1.65391
n_F	486.1	1.65925
$n_{F'}$	480.0	1.65992
n_g	435.8	1.66562
n_h	404.7	1.67092
n_i	365.0	1.67997
$n_{334.1}$	334.1	1.68975
$n_{312.6}$	312.6	1.69876
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.142297810
B_2	0.535138441
B_3	1.040883850
C_1	0.005857786
C_2	0.0198546147
C_3	100.83401700

Constants of Formula for dn/dT

D_0	1.36E-06
D_1	1.49E-08
D_2	-1.29E-11
E_0	3.41E-07
E_1	2.09E-10
λ_{TK} [μm]	0.262

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	2.2	2.9	3.6	0.0	0.6	1.3
+20/+40	2.4	3.1	3.9	1.0	1.7	2.4
+60/+80	2.7	3.4	4.2	1.6	2.3	3.1

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.71	0.43
2325	0.85	0.67
1970	0.967	0.92
1530	0.994	0.986
1060	0.999	0.998
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.995
546	0.998	0.995
500	0.996	0.991
460	0.994	0.986
436	0.993	0.983
420	0.993	0.982
405	0.992	0.979
400	0.991	0.977
390	0.989	0.972
380	0.985	0.963
370	0.978	0.95
365	0.973	0.93
350	0.95	0.87
334	0.89	0.74
320	0.77	0.52
310	0.63	0.31
300	0.43	0.12
290	0.21	0.02
280	0.11	0.00
270		
260		
250		

Color Code

λ_{80} / λ_5 34/28

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2729
$P_{C,s}$	0.5314
$P_{d,C}$	0.3031
$P_{e,d}$	0.2384
$P_{g,F}$	0.5467
$P_{i,h}$	0.7771

Relative Partial Dispersion P'

$P'_{s,t}$	0.2704
$P'_{C,s}$	0.5744
$P'_{d,C'}$	0.2527
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.4851
$P'_{i,h}$	0.7702

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.0058
$\Delta P_{C,s}$	-0.0018
$\Delta P_{F,e}$	-0.0005
$\Delta P_{g,F}$	-0.0031
$\Delta P_{i,g}$	-0.0236

Chemical Properties

CR	2
FR	2
SR	51.2
AR	1
PR	2.3

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.6
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.4
T_g [°C]	689
T_{10}^{13} [°C]	673
$T_{10}^{7.6}$ [°C]	
c_p [J/(g·K)]	0.540
λ [W/(m·K)]	0.750
ρ [g/cm ³]	3.77
E [10^3 N/mm ²]	90
μ	0.266
K [10^{-6} mm ² /N]	1.82
HK _{0.1/20}	600
HG	4