

N-LAK28 744508.409

$n_d = 1.74429$

$v_d = 50.77$

$n_F - n_C = 0.014660$

$n_e = 1.74778$

$v_e = 50.54$

$n_F - n_C = 0.014797$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.70318
$n_{1970.1}$	1970.1	1.71077
$n_{1529.6}$	1529.6	1.71877
$n_{1060.0}$	1060.0	1.72709
n_t	1014.0	1.72805
n_s	852.1	1.73207
n_r	706.5	1.73734
n_C	656.3	1.73985
$n_{C'}$	643.8	1.74056
$n_{632.8}$	632.8	1.74121
n_D	589.3	1.74416
n_d	587.6	1.74429
n_e	546.1	1.74778
n_F	486.1	1.75451
$n_{F'}$	480.0	1.75535
n_g	435.8	1.76257
n_h	404.7	1.76931
n_i	365.0	1.78090
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.504419860
B_2	0.474120561
B_3	1.177843540
C_1	0.007196656
C_2	0.0249143227
C_3	83.14432100

Constants of Formula for dn/dT

D_0	5.01E-06
D_1	1.12E-08
D_2	-1.08E-11
E_0	4.68E-07
E_1	3.34E-10
λ_{TK} [μm]	0.226

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	4.7	5.6	6.6	2.4	3.3	4.1
+20/+40	4.7	5.7	6.7	3.3	4.2	5.2
+60/+80	4.9	5.9	7.0	3.7	4.7	5.8

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500		
2325	0.700	0.410
1970	0.950	0.880
1530	0.992	0.980
1060	0.998	0.995
700	0.998	0.994
660	0.997	0.993
620	0.997	0.993
580	0.997	0.993
546	0.998	0.994
500	0.997	0.992
460	0.992	0.980
436	0.988	0.970
420	0.980	0.950
405	0.959	0.900
400	0.950	0.870
390	0.910	0.800
380	0.850	0.670
370	0.760	0.500
365	0.690	0.390
350	0.380	0.090
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 40/34

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2740
$P_{C,s}$	0.5307
$P_{d,C}$	0.3025
$P_{e,d}$	0.2382
$P_{g,F}$	0.5499
$P_{i,h}$	0.7905

Relative Partial Dispersion P'

$P'_{s,t}$	0.2715
$P'_{C,s}$	0.5734
$P'_{d,C'}$	0.2521
$P'_{e,d}$	0.2360
$P'_{g,F'}$	0.4879
$P'_{i,h}$	0.7832

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0189
$\Delta P_{C,s}$	0.0095
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0085
$\Delta P_{i,g}$	-0.0484

Chemical Properties

CR	2
FR	1
SR	52.3
AR	1
PR	3.3

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	5.7
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	6.8
T_g [°C]	625
T_{10}^{13} [°C]	
$T_{10}^{7.6}$ [°C]	
c_p [J/(g·K)]	0.595
λ [W/(m·K)]	0.837
ρ [g/cm ³]	4.09
E [10^3 N/mm ²]	117
μ	0.291
K [10^{-6} mm ² /N]	1.71
$HK_{0.1/20}$	740