

N-LAK9 691547.351

$n_d = 1.69100$
 $n_e = 1.69401$

$v_d = 54.71$
 $v_e = 54.48$

$n_F - n_C = 0.012631$
 $n_{F'} - n_{C'} = 0.012738$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.65294
$n_{1970.1}$	1970.1	1.66032
$n_{1529.6}$	1529.6	1.66804
$n_{1060.0}$	1060.0	1.67584
n_t	1014.0	1.67672
n_s	852.1	1.68033
n_r	706.5	1.68497
n_C	656.3	1.68716
$n_{C'}$	643.8	1.68777
$n_{632.8}$	632.8	1.68834
n_D	589.3	1.69089
n_d	587.6	1.69100
n_e	546.1	1.69401
n_F	486.1	1.69979
$n_{F'}$	480.0	1.70051
n_g	435.8	1.70667
n_h	404.7	1.71239
n_i	365.0	1.72219
$n_{334.1}$	334.1	1.73281
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.462319050
B_2	0.344399589
B_3	1.155083720
C_1	0.007242702
C_2	0.0243353131
C_3	85.46868680

Constants of Formula for dn/dT

D_0	2.11E-06
D_1	1.11E-08
D_2	1.82E-12
E_0	4.74E-07
E_1	-3.47E-10
λ_{TK} [μm]	0.146

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	3.0	3.9	4.6	0.8	1.6	2.3
+20/+40	2.9	3.7	4.4	1.5	2.2	2.9
+60/+80	3.1	3.8	4.4	2.0	2.7	3.3

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.460	0.140
2325	0.710	0.420
1970	0.940	0.860
1530	0.986	0.966
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.994
546	0.998	0.994
500	0.997	0.992
460	0.994	0.984
436	0.991	0.977
420	0.988	0.970
405	0.983	0.957
400	0.980	0.950
390	0.971	0.930
380	0.954	0.890
370	0.930	0.830
365	0.910	0.780
350	0.790	0.550
334	0.530	0.200
320	0.210	0.020
310	0.070	0.000
300	0.010	
290	0.000	
280	0.000	
270		
260		
250		

Color Code

λ_{80} / λ_5 37/31

Remarks

step 0.5 available

Relative Partial Dispersion P

$P_{s,t}$	0.2859
$P_{C,s}$	0.5409
$P_{d,C}$	0.3043
$P_{e,d}$	0.2384
$P_{g,F}$	0.5447
$P_{i,h}$	0.7756

Relative Partial Dispersion P'

$P'_{s,t}$	0.2834
$P'_{C,s}$	0.5844
$P'_{d,C'}$	0.2536
$P'_{e,d}$	0.2363
$P'_{g,F'}$	0.4835
$P'_{i,h}$	0.7690

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0223
$\Delta P_{C,s}$	0.0105
$\Delta P_{F,e}$	-0.0023
$\Delta P_{g,F}$	-0.0071
$\Delta P_{i,g}$	-0.0367

Chemical Properties

CR	3
FR	3
SR	52
AR	1.2
PR	4.3

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.3
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.5
T_g [°C]	656
T_{10}^{13} [°C]	645
$T_{10}^{7.6}$ [°C]	722
c_p [J/(g·K)]	0.649
λ [W/(m·K)]	0.908
ρ [g/cm ³]	3.51
E [10^3 N/mm ²]	110
μ	0.285
K [10^{-6} mm ² /N]	1.83
$HK_{0.1/20}$	700
HG	3