

N-LASF55 954306.486

$n_d = 1.95380$

$v_d = 30.56$

$n_F - n_C = 0.031211$

$n_e = 1.96118$

$v_e = 30.33$

$n_F - n_C = 0.031688$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.89507
$n_{1970.1}$	1970.1	1.90226
$n_{1529.6}$	1529.6	1.91065
$n_{1060.0}$	1060.0	1.92162
n_t	1014.0	1.92312
n_s	852.1	1.92991
n_r	706.5	1.93976
n_C	656.3	1.94473
$n_{C'}$	643.8	1.94614
$n_{632.8}$	632.8	1.94748
n_D	589.3	1.95353
n_d	587.6	1.95380
n_e	546.1	1.96118
n_F	486.1	1.97594
$n_{F'}$	480.0	1.97783
n_g	435.8	1.99454
n_h	404.7	2.01096
n_i	365.0	
$n_{334.1}$	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	2.308612280
B_2	0.354736638
B_3	1.922271250
C_1	0.013044700
C_2	0.0557524221
C_3	133.19686900

Constants of Formula for dn/dT

D_0	2.25E-06
D_1	1.09E-08
D_2	-1.64E-11
E_0	9.64E-07
E_1	1.25E-09
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	3.9	6.1	8.7	1.3	3.4	5.9
+20/+40	4.0	6.6	9.7	2.4	4.9	7.9
+60/+80	4.3	7.1	10.5	3.0	5.8	9.1

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.710	0.420
2325	0.850	0.660
1970	0.967	0.920
1530	0.995	0.987
1060	0.999	0.997
700	0.995	0.988
660	0.993	0.983
620	0.991	0.977
580	0.987	0.969
546	0.981	0.954
500	0.959	0.900
460	0.920	0.810
436	0.870	0.710
420	0.810	0.590
405	0.700	0.410
400	0.650	0.340
390	0.500	0.180
380	0.310	0.050
370	0.100	0.000
365	0.030	0.000
350	0.000	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{70} / \lambda_{50}$ 44/37

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2175
$P_{C,s}$	0.4748
$P_{d,C}$	0.2907
$P_{e,d}$	0.2364
$P_{g,F}$	0.5961
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2142
$P'_{C,s}$	0.5123
$P'_{d,C'}$	0.2416
$P'_{e,d}$	0.2329
$P'_{g,F'}$	0.5274
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0023
$\Delta P_{C,s}$	0.0007
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	0.0037
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	2.3
AR	1
PR	1
SR-J	1
WR-J	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.6
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.7
T_g [°C]	718
T_{10}^{13} [°C]	722
$T_{10}^{7.6}$ [°C]	796
c_p [J/(g·K)]	0.500
λ [W/(m·K)]	0.900
ρ [g/cm ³]	4.86
E [10^3 N/mm ²]	126
μ	0.300
K [10^{-6} mm ² /N]	1.16
$HK_{0.1/20}$	710
HG	2