

LASF35 022291.541

$n_d = 2.02204$

$v_d = 29.06$

$n_F - n_C = 0.035170$

$n_e = 2.03035$

$v_e = 28.84$

$n_{F'} - n_{C'} = 0.035721$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.95946
$n_{1970.1}$	1970.1	1.96639
$n_{1529.6}$	1529.6	1.97472
$n_{1060.0}$	1060.0	1.98624
n_t	1014.0	1.98786
n_s	852.1	1.99531
n_r	706.5	2.00628
n_C	656.3	2.01185
$n_{C'}$	643.8	2.01343
$n_{632.8}$	632.8	2.01493
n_D	589.3	2.02173
n_d	587.6	2.02204
n_e	546.1	2.03035
n_F	486.1	2.04702
$n_{F'}$	480.0	2.04916
n_g	435.8	2.06805
n_h	404.7	2.08663
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	2.455058610
B_2	0.453006077
B_3	2.385130800
C_1	0.013567040
C_2	0.0545803020
C_3	167.90471500

Constants of Formula for dn/dT

D_0	1.43E-07
D_1	8.71E-09
D_2	-2.71E-11
E_0	1.02E-06
E_1	1.50E-09
λ_{TK} [μm]	0.263

Temperature Coefficients of the Refractive Index

[°C]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	1060.0	e	g	1060.0	e	g
-40/-20	2.6	5.0	7.8	-0.1	2.2	5.0
+20/+40	2.7	5.5	9.0	1.0	3.8	7.1
+60/+80	2.8	5.9	9.7	1.4	4.5	8.3

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.790	0.550
2325	0.880	0.720
1970	0.973	0.930
1530	0.995	0.987
1060	0.998	0.994
700	0.992	0.981
660	0.990	0.974
620	0.987	0.969
580	0.985	0.962
546	0.977	0.940
500	0.950	0.870
460	0.900	0.770
436	0.850	0.670
420	0.790	0.550
405	0.690	0.390
400	0.630	0.320
390	0.500	0.180
380	0.300	0.050
370	0.100	0.000
365	0.030	
350	0.000	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{70} / \lambda_{50}$ 45/37

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2118
$P_{C,s}$	0.4701
$P_{d,C}$	0.2899
$P_{e,d}$	0.2364
$P_{g,F}$	0.5982
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2086
$P'_{C,s}$	0.5073
$P'_{d,C'}$	0.2409
$P'_{e,d}$	0.2327
$P'_{g,F'}$	0.5291
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.0009
$\Delta P_{C,s}$	-0.0006
$\Delta P_{F,e}$	0.0006
$\Delta P_{g,F}$	0.0033
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	1.3
AR	1
PR	1.3

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/\text{K}$]	7.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/\text{K}$]	8.5
T_g [°C]	774
T_{10}^{13} [°C]	
$T_{10}^{7.6}$ [°C]	
c_p [J/(g·K)]	0.445
λ [W/(m·K)]	0.920
ρ [g/cm ³]	5.41
E [10^3 N/mm ²]	132
μ	0.303
K [10^{-6} mm ² /N]	0.73
$HK_{0.1/20}$	810
HG	1