Data Sheet

SCHOTT

N-LAF2
744449.430

n_d = 1.74397	ν_d = 44.85	$n_F - n_C$ = 0.016588
n_e = 1.74791	ν_e = 44.57	$n_{F'} - n_{C'}$ = 0.016780

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.70582
$n_{1970.1}$	1970.1	1.71169
$n_{1529.6}$	1529.6	1.71816
$n_{1060.0}$	1060.0	1.72563
n_t	1014.0	1.72656
n_s	852.1	1.73064
n_r	706.5	1.73627
n_C	656.3	1.73903
$n_{C'}$	643.8	1.73981
$n_{632.8}$	632.8	1.74054
n_D	589.3	1.74383
n_d	587.6	1.74397
n_e	546.1	1.74791
n_F	486.1	1.75562
$n_{F'}$	480.0	1.75659
n_g	435.8	1.76500
n_h	404.7	1.77298
n_i	365.0	1.78703
$n_{334.1}$	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	1.80984227
B_2	0.157295550
B_3	1.093003700
C_1	0.01017116220
C_2	0.0442431765
C_3	100.6877480

Constants of Formula for dn/dT	
D_0	-3.64E-06
D_1	9.20E-09
D_2	-6.00E-12
E_0	6.43E-07
E_1	6.11E-10
λ_{TK} [µm]	0.220

Internal Transmittance τ_i		
λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.690	0.400
2325	0.860	0.690
1970	0.951	0.880
1530	0.994	0.985
1060	0.999	0.997
700	0.998	0.996
660	0.997	0.993
620	0.997	0.992
580	0.997	0.993
546	0.998	0.994
500	0.993	0.983
460	0.985	0.962
436	0.976	0.940
420	0.965	0.920
405	0.940	0.870
400	0.930	0.840
390	0.900	0.760
380	0.830	0.630
370	0.710	0.430
365	0.630	0.310
350	0.230	0.030
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code	
λ_{80} / λ_5	40/34

(*= λ_{70}/λ_5)

Remarks

Relative Partial Dispersion	
$P_{s,t}$	0.2459
$P_{C,s}$	0.5057
$P_{d,C}$	0.2979
$P_{e,d}$	0.2377
$P_{g,F}$	0.5656
$P_{i,h}$	0.8470
$P'_{s,t}$	0.2431
$P'_{C',s}$	0.5464
$P'_{d,C'}$	0.2481
$P'_{e,d}$	0.2350
$P'_{g,F'}$	0.5012
$P'_{i,h}$	0.8373

Deviation of Relative Partial Dispersion ΔP from the normal line	
$\Delta P_{C,t}$	-0.0061
$\Delta P_{C,s}$	-0.0017
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0027
$\Delta P_{i,g}$	-0.0202

Other Properties	
$\alpha_{-30/+70°C}$ [10^{-6}/K]	8.1
$\alpha_{+20/+300°C}$ [10^{-6}/K]	9.1
T_g [°C]	653
$T_{10^{13}}$ [°C]	645
$T_{10^{7.6}}$ [°C]	734
c_p [J/(g*K)]	0.510
λ [W/(m•K)]	0.670
ρ [g/cm^3]	4.30
E [10^3 N/mm^2]	94
µ	0.288
K [10^{-6} mm^2/N]	1.42
$HK_{0.1/20}$	530
HG	6
CR	2
FR	3
SR	52.2
AR	1
PR	2.2

Temperature Coefficients of the Refractive Index						
	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	**1060.0**	**e**	**g**	**1060.0**	**e**	**g**
-40/-20	0.0	1.0	2.1	-2.3	-1.3	-0.3
+20/+40	-0.1	1.0	2.3	-1.6	-0.5	0.7
+60/+80	-0.1	1.2	2.5	-1.2	0.0	1.3