Data Sheet

SCHOTT

N-LAF3
717480.414

$n_d = 1.71700$	$\nu_d = 47.96$	$n_F - n_C = 0.014950$
$n_e = 1.72055$	$\nu_e = 47.68$	$n_{F'} - n_{C'} = 0.015112$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.68061
$n_{1970.1}$	1970.1	1.68653
$n_{1529.6}$	1529.6	1.69297
$n_{1060.0}$	1060.0	1.70017
n_t	1014.0	1.70105
n_s	852.1	1.70485
n_r	706.5	1.71001
n_C	656.3	1.71252
$n_{C'}$	643.8	1.71323
$n_{632.8}$	632.8	1.71389
n_D	589.3	1.71687
n_d	587.6	1.71700
n_e	546.1	1.72055
n_F	486.1	1.72747
$n_{F'}$	480.0	1.72834
n_g	435.8	1.73585
n_h	404.7	1.74293
n_i	365.0	1.75530
$n_{334.1}$	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	1.73155854
B_2	0.150874455
B_3	1.06586596
C_1	0.00953833914
C_2	0.0407887211
C_3	98.0758545

Constants of Dispersion dn/dT

D_0	$-2.35 \cdot 10^{-6}$
D_1	$1.07 \cdot 10^{-8}$
D_2	$-9.38 \cdot 10^{-12}$
E_0	$5.72 \cdot 10^{-7}$
E_1	$6.01 \cdot 10^{-10}$
λ_{TK} [µm]	0.22

Internal Transmittance τ_i

λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.626	0.310
2325	0.804	0.580
1970	0.950	0.880
1530	0.992	0.980
1060	0.997	0.993
700	0.997	0.993
660	0.997	0.993
620	0.997	0.993
580	0.997	0.993
546	0.997	0.993
500	0.994	0.985
460	0.987	0.968
436	0.982	0.955
420	0.976	0.940
405	0.963	0.910
400	0.954	0.890
390	0.928	0.830
380	0.877	0.720
370	0.782	0.540
365	0.707	0.420
350	0.314	0.060
334	0.006	
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80}/λ_5	39/34
(*= λ_{70}/λ_5)	

Remarks

inquiry glass

Relative Partial Dispersion

$P_{s,t}$	0.2538
$P_{C,s}$	0.5132
$P_{d,C}$	0.2994
$P_{e,d}$	0.2379
$P_{g,F}$	0.5603
$P_{i,h}$	0.8274
$P'_{s,t}$	0.2511
$P'_{C',s}$	0.5545
$P'_{d,C'}$	0.2494
$P'_{e,d}$	0.2353
$P'_{g,F'}$	0.4967
$P'_{i,h}$	0.8185

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"

$\Delta P_{C,t}$	-0.0054
$\Delta P_{C,s}$	-0.0015
$\Delta P_{F,e}$	-0.0005
$\Delta P_{g,F}$	-0.0028
$\Delta P_{i,g}$	-0.0210

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	7.6
$\alpha_{+20/+300°C}$ [10^{-6}/K]	8.7
T_g [°C]	646
$T_{10}^{13.0}$ [°C]	640
$T_{10}^{7.6}$ [°C]	740
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm^3]	4.14
E [10^3 N/mm^2]	95
μ	0.286
K [10^{-6} mm^2/N]	1.53
HK$_{0.1/20}$	580
HG	5
CR	2
FR	3
SR	52.3
AR	1.2
PR	3.3

Temperature Coefficients of 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	0.6	1.5	2.5	-1.7	-0.8	0.1
+20/ +40	0.6	1.6	2.7	-0.9	0.1	1.2
+60/ +80	0.7	1.8	3.0	-0.4	0.7	1.8