Data Sheet

SCHOTT

N-LAF36
800424.443

$n_d = 1.79952$	$\nu_d = 42.37$	$n_F - n_C = 0.018871$
$n_e = 1.80400$	$\nu_e = 42.12$	$n_{F'} - n_{C'} = 0.019090$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.75555
$n_{1970.1}$	1970.1	1.76246
$n_{1529.6}$	1529.6	1.77001
$n_{1060.0}$	1060.0	1.77862
n_t	1014.0	1.77969
n_s	852.1	1.78435
n_r	706.5	1.79076
n_C	656.3	1.79390
$n_{C'}$	643.8	1.79478
$n_{632.8}$	632.8	1.79561
n_D	589.3	1.79935
n_d	587.6	1.79952
n_e	546.1	1.80400
n_F	486.1	1.81277
$n_{F'}$	480.0	1.81387
n_g	435.8	1.82345
n_h	404.7	1.83252
n_i	365.0	1.84848
$n_{334.1}$	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	1.85744228
B_2	0.294098729
B_3	1.16615417
C_1	0.00982397191
C_2	0.0384309138
C_3	89.3984634

Constants of Dispersion dn/dT

D_0	$8.72 \cdot 10^{-6}$
D_1	$1.12 \cdot 10^{-8}$
D_2	$-1.38 \cdot 10^{-11}$
E_0	$7.81 \cdot 10^{-7}$
E_1	$9.48 \cdot 10^{-10}$
λ_{TK} [µm]	0.212

Internal Transmittance τ_i

λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.480	0.160
2325	0.770	0.520
1970	0.950	0.880
1530	0.992	0.980
1060	0.998	0.994
700	0.998	0.994
660	0.998	0.994
620	0.997	0.992
580	0.997	0.992
546	0.996	0.990
500	0.992	0.980
460	0.985	0.962
436	0.976	0.940
420	0.967	0.920
405	0.954	0.890
400	0.946	0.870
390	0.919	0.810
380	0.872	0.710
370	0.793	0.560
365	0.733	0.460
350	0.455	0.140
334	0.068	
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80}/λ_5	40/33
(*= λ_{70}/λ_5)	

Remarks

inquiry glass

Relative Partial Dispersion

$P_{s,t}$	0.2467
$P_{C,s}$	0.5059
$P_{d,C}$	0.2979
$P_{e,d}$	0.2377
$P_{g,F}$	0.5659
$P_{i,h}$	0.8455
$P'_{s,t}$	0.2439
$P'_{C',s}$	0.5465
$P'_{d,C'}$	0.2480
$P'_{e,d}$	0.2349
$P'_{g,F'}$	0.5014
$P'_{i,h}$	0.8358

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

$\Delta P_{C,t}$	0.0067
$\Delta P_{C,s}$	0.0043
$\Delta P_{F,e}$	-0.0016
$\Delta P_{g,F}$	-0.0067
$\Delta P_{i,g}$	-0.0424

Other Properties

$\alpha_{-30/+70°C}$ [10^{-6}/K]	5.7
$\alpha_{+20/+300°C}$ [10^{-6}/K]	6.8
T_g [°C]	579
$T_{10}^{13.0}$ [°C]	582
$T_{10}^{7.6}$ [°C]	670
c_p [J/(g·K)]	0.540
λ [W/(m·K)]	0.790
ρ [g/cm^3]	4.43
E [10^3 N/mm^2]	110
μ	0.305
K [10^{-6} mm^2/N]	2.25
HK$_{0.1/20}$	680
HG	1
CR	1
FR	2
SR	52.3
AR	1
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	7.3	8.8	10.3	4.9	6.4	7.8
+20/ +40	7.4	9.1	10.8	5.9	7.6	9.2
+60/ +80	7.6	9.5	11.3	6.4	8.2	10.1