

N-LAK33A 754523.422

$n_d = 1.75393$	$v_d = 52.27$	$n_F - n_C = 0.014424$
$n_e = 1.75737$	$v_e = 52.04$	$n_{F'} - n_{C'} = 0.014554$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.71278
$n_{1970.1}$	1970.1	1.72047
$n_{1529.6}$	1529.6	1.72855
$n_{1060.0}$	1060.0	1.73690
n_t	1014.0	1.73786
n_s	852.1	1.74186
n_r	706.5	1.74707
n_C	656.3	1.74956
$n_{C'}$	643.8	1.75025
$n_{632.8}$	632.8	1.75090
n_D	589.3	1.75380
n_d	587.6	1.75393
n_e	546.1	1.75737
n_F	486.1	1.76398
$n_{F'}$	480.0	1.76481
n_g	435.8	1.77187
n_h	404.7	1.77845
n_i	365.0	1.78972
$n_{334.1}$	334.1	1.80195
$n_{312.6}$	312.6	1.81325
$n_{296.7}$	296.7	1.82361
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.398	0.100
2325	0.686	0.390
1970	0.937	0.850
1530	0.990	0.975
1060	0.998	0.995
700	0.998	0.996
660	0.998	0.995
620	0.998	0.994
580	0.998	0.995
546	0.998	0.996
500	0.998	0.994
460	0.994	0.986
436	0.991	0.978
420	0.988	0.970
405	0.981	0.953
400	0.976	0.940
390	0.967	0.920
380	0.950	0.880
370	0.924	0.820
365	0.905	0.780
350	0.804	0.580
334	0.601	0.280
320	0.336	0.060
310	0.160	
300	0.053	
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2770
$P_{C,s}$	0.5338
$P_{d,C}$	0.3032
$P_{e,d}$	0.2383
$P_{g,F}$	0.5473
$P_{i,h}$	0.7814
$P'_{s,t}$	0.2746
$P'_{C',s}$	0.5769
$P'_{d,C'}$	0.2527
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.4857
$P'_{i,h}$	0.7744

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

$\Delta P_{C,t}$	0.0180
$\Delta P_{C,s}$	0.0091
$\Delta P_{F,e}$	-0.0024
$\Delta P_{g,F}$	-0.0086
$\Delta P_{i,g}$	-0.0484

Constants of Dispersion Formula	
B_1	1.44116999
B_2	0.571749501
B_3	1.16605226
C_1	0.00680933877
C_2	0.0222291824
C_3	80.9379555

Constants of Dispersion dn/dT	
D_0	$2.63 \cdot 10^{-6}$
D_1	$1.11 \cdot 10^{-8}$
D_2	$-3.92 \cdot 10^{-12}$
E_0	$5.02 \cdot 10^{-7}$
E_1	$5.08 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.188

Color Code	
λ_{80}/λ_5	38/30
(* = λ_{70}/λ_5)	

Remarks	
will become inquiry glass as of Jan 2015, not recommended for new design	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	5.8
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.0
$T_g [^\circ C]$	669
$T_{10}^{13.0} [^\circ C]$	667
$T_{10}^{7.6} [^\circ C]$	744
$c_p [J/(g \cdot K)]$	0.550
$\lambda [W/(m \cdot K)]$	0.810
$\rho [g/cm^3]$	4.22
$E [10^3 N/mm^2]$	121
μ	0.292
$K [10^{-6} mm^2/N]$	1.49
$HK_{0.1/20}$	740
HG	2
CR	1
FR	1
SR	51
AR	1
PR	2

Temperature Coefficients of Refractive Index						
[$^\circ C$]	$\Delta n_{rel}/\Delta T [10^{-6}/K]$			$\Delta n_{abs}/\Delta T [10^{-6}/K]$		
	1060.0	e	g	1060.0	e	g
-40/ -20	3.4	4.3	5.1	1.1	1.9	2.7
+20/ +40	3.4	4.4	5.3	1.9	2.9	3.7
+60/ +80	3.6	4.7	5.6	2.4	3.5	4.4