

N-FK58 456909.365

$n_d = 1.45600$	$v_d = 90.90$	$n_F - n_C = 0.005017$
$n_e = 1.45720$	$v_e = 90.47$	$n_{F'} - n_{C'} = 0.005053$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.44114
$n_{1970.1}$	1970.1	1.44388
$n_{1529.6}$	1529.6	1.44683
$n_{1060.0}$	1060.0	1.44991
n_t	1014.0	1.45026
n_s	852.1	1.45171
n_r	706.5	1.45358
n_C	656.3	1.45446
$n_{C'}$	643.8	1.45471
$n_{632.8}$	632.8	1.45494
n_D	589.3	1.45596
n_d	587.6	1.45600
n_e	546.1	1.45720
n_F	486.1	1.45948
$n_{F'}$	480.0	1.45976
n_g	435.8	1.46216
n_h	404.7	1.46436
n_i	365.0	1.46807
$n_{334.1}$	334.1	1.47199
$n_{312.6}$	312.6	0.00000
$n_{296.7}$	296.7	0.00000
$n_{280.4}$	280.4	0.00000
$n_{248.3}$	248.3	0.00000

Constants of Dispersion Formula	
B_1	0.738042712
B_2	0.363371967
B_3	0.989296264
C_1	0.00339065607
C_2	0.0117551189
C_3	212.842145

Constants of Dispersion dn/dT	
D_0	$-2.05 \cdot 10^{-5}$
D_1	$-6.33 \cdot 10^{-9}$
D_2	$4.13 \cdot 10^{-11}$
E_0	$3.84 \cdot 10^{-7}$
E_1	$1.63 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.073

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.997	0.993
2325	0.998	0.996
1970	0.999	0.998
1530	0.999	0.998
1060	0.998	0.995
700	0.997	0.993
660	0.997	0.993
620	0.997	0.994
580	0.998	0.994
546	0.998	0.995
500	0.998	0.994
460	0.997	0.992
436	0.996	0.991
420	0.996	0.991
405	0.996	0.991
400	0.996	0.991
390	0.996	0.990
380	0.995	0.987
370	0.992	0.980
365	0.990	0.975
350	0.976	0.940
334	0.928	0.830
320	0.821	0.610
310	0.693	0.400
300	0.525	0.200
290	0.364	0.080
280	0.239	0.028
270	0.152	0.010
260	0.109	0.005
250	0.090	

Color Code	
λ_{80}/λ_5	33/--
(*= λ_{70}/λ_5)	

Remarks
XLD glass

Temperature Coefficients of Refractive Index						
[°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	-5.4	-5.1	-4.8	-7.3	-7.1	-6.8
+20/ +40	-6.5	-6.2	-5.9	-7.7	-7.4	-7.2
+60/ +80	-6.8	-6.5	-6.2	-7.8	-7.5	-7.3

Relative Partial Dispersion	
$P_{s,t}$	0.2894
$P_{C,s}$	0.5481
$P_{d,C}$	0.3066
$P_{e,d}$	0.2388
$P_{g,F}$	0.5347
$P_{i,h}$	0.7387
$P'_{s,t}$	0.2873
$P'_{C',s}$	0.5927
$P'_{d,C'}$	0.2557
$P'_{e,d}$	0.2371
$P'_{g,F'}$	0.4749
$P'_{i,h}$	0.7334

Deviation of Relative Partial Dispersions ΔP from the "Normal Line"	
$\Delta P_{C,t}$	-0.1386
$\Delta P_{C,s}$	-0.0667
$\Delta P_{F,e}$	0.0140
$\Delta P_{g,F}$	0.0438
$\Delta P_{i,g}$	0.2157

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	13.7
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	15.7
$T_g [^\circ C]$	445
$T_{10}^{13.0} [^\circ C]$	448
$T_{10}^{7.6} [^\circ C]$	508
$c_p [J/(g \cdot K)]$	0.710
$\lambda [W/(m \cdot K)]$	0.760
$AT [^\circ C]$	475
$\rho [g/cm^3]$	3.65
$E [10^3 N/mm^2]$	70
μ	0.300
$K [10^{-6} mm^2/N]$	0.54
$HK_{0.1/20}$	372
HG	
CR	1
FR	1
SR	52.3
AR	3.3
PR	4.3
$SR-J$	4
$WR-J$	1