

N-FK51A 487845.368

$n_d = 1.48656$	$v_d = 84.47$	$n_F - n_C = 0.005760$
$n_e = 1.48794$	$v_e = 84.07$	$n_{F'} - n_{C'} = 0.005804$

Refractive Indices		
	λ [nm]	
$n_{2325.4}$	2325.4	1.46958
$n_{1970.1}$	1970.1	1.47271
$n_{1529.6}$	1529.6	1.47608
$n_{1060.0}$	1060.0	1.47959
n_t	1014.0	1.47999
n_s	852.1	1.48165
n_r	706.5	1.48379
n_C	656.3	1.48480
$n_{C'}$	643.8	1.48508
$n_{632.8}$	632.8	1.48534
n_D	589.3	1.48651
n_d	587.6	1.48656
n_e	546.1	1.48794
n_F	486.1	1.49056
$n_{F'}$	480.0	1.49088
n_g	435.8	1.49364
n_h	404.7	1.49618
n_i	365.0	1.50046
$n_{334.1}$	334.1	1.50501
$n_{312.6}$	312.6	1.50911
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance τ_i		
λ [nm]	τ_i (10mm)	τ_i (25mm)
2500	0.891	0.750
2325	0.933	0.840
1970	0.976	0.940
1530	0.992	0.980
1060	0.998	0.994
700	0.998	0.995
660	0.998	0.995
620	0.998	0.996
580	0.999	0.997
546	0.999	0.997
500	0.998	0.996
460	0.997	0.993
436	0.997	0.992
420	0.997	0.992
405	0.997	0.993
400	0.997	0.993
390	0.997	0.992
380	0.995	0.988
370	0.990	0.976
365	0.985	0.963
350	0.948	0.875
334	0.831	0.630
320	0.618	0.300
310	0.428	0.120
300	0.262	0.035
290	0.137	0.010
280	0.058	
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2879
$P_{C,s}$	0.5465
$P_{d,C}$	0.3062
$P_{e,d}$	0.2388
$P_{g,F}$	0.5359
$P_{i,h}$	0.7429
$P'_{s,t}$	0.2858
$P'_{C',s}$	0.5909
$P'_{d,C'}$	0.2554
$P'_{e,d}$	0.2370
$P'_{g,F'}$	0.4759
$P'_{i,h}$	0.7373

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

$\Delta P_{C,t}$	-0.1112
$\Delta P_{C,s}$	-0.0533
$\Delta P_{F,e}$	0.0110
$\Delta P_{g,F}$	0.0342
$\Delta P_{i,g}$	0.1675

Constants of Dispersion Formula	
B_1	0.971247817
B_2	0.216901417
B_3	0.904651666
C_1	0.00472301995
C_2	0.0153575612
C_3	168.68133

Constants of Dispersion dn/dT	
D_0	$-1.83 \cdot 10^{-5}$
D_1	$-7.89 \cdot 10^{-9}$
D_2	$-1.63 \cdot 10^{-12}$
E_0	$3.74 \cdot 10^{-7}$
E_1	$3.46 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.15

Color Code	
λ_{80}/λ_5	34/28
(*= λ_{70}/λ_5)	

Remarks
suitable for precision molding, step 0.5 available

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	12.7
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	14.8
$T_g [^\circ C]$	464
$T_{10}^{13.0} [^\circ C]$	463
$T_{10}^{7.6} [^\circ C]$	527
$c_p [J/(g \cdot K)]$	0.690
$\lambda [W/(m \cdot K)]$	0.760
$AT [^\circ C]$	503
$\rho [g/cm^3]$	3.68
$E [10^3 N/mm^2]$	73
μ	0.302
$K [10^{-6} mm^2/N]$	0.70
$HK_{0.1/20}$	345
HG	6
$Abrasion Aa$	528
CR	1
FR	0
SR	52.3
AR	2.2
PR	4.3
$SR-J$	3
$WR-J$	1

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	-4.9	-4.6	-4.3	-6.9	-6.6	-6.4
+20/ +40	-6.0	-5.7	-5.3	-7.3	-7.0	-6.7
+60/ +80	-6.5	-6.2	-5.8	-7.5	-7.2	-6.9