

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_f	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	

Constants of Dispersion Formula	
B_1	0.97124782
B_2	0.216901417
B_3	0.904651666
C_1	0.00472301995
C_2	0.0153575612
C_3	168.6813300

Constants of Formula for dn/dT	
D_0	-1.83E-05
D_1	-7.89E-09
D_2	-1.63E-12
E_0	3.74E-07
E_1	3.46E-10
λ_{TK} [μm]	0.150

Temperature Coefficients of the Refractive Index						
[$^{\circ}\text{C}$]	$\Delta n_{rel}/\Delta T$ [$10^{-6}/\text{K}$]			$\Delta n_{abs}/\Delta T$ [$10^{-6}/\text{K}$]		
	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

Internal Transmittance τ_i		
λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.890	0.750
2325	0.930	0.840
1970	0.996	0.989
1530	0.996	0.990
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	0.950	0.880
334	0.830	0.630
320	0.620	0.300
310	0.430	0.120
300	0.260	0.040
290	0.140	0.010
280	0.060	
270		
260		
250		

Color Code	
λ_{80} / λ_5	34/28

Remarks
suitable for precision molding, step 0.5 available

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 Dispersion 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

Other Properties	
$\alpha_{-30/+70^{\circ}\text{C}}$ [$10^{-6}/\text{K}$]	12.7
$\alpha_{+20/+300^{\circ}\text{C}}$ [$10^{-6}/\text{K}$]	14.8
T_g [$^{\circ}\text{C}$]	464
T_{10}^{13} [$^{\circ}\text{C}$]	463
$T_{10}^{7.6}$ [$^{\circ}\text{C}$]	527
c_p [$\text{J}/(\text{g}\cdot\text{K})$]	0.690
λ [$\text{W}/(\text{m}\cdot\text{K})$]	0.760
AT [$^{\circ}\text{C}$]	503
ρ [g/cm^3]	3.68
E [$10^3 \text{ N}/\text{mm}^2$]	73
μ	0.302
K [$10^{-6} \text{ mm}^2/\text{N}$]	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