

## N-FK5 487704.245

$n_d = 1.48749$	$v_d = 70.41$	$n_F - n_C = 0.006924$
$n_e = 1.48914$	$v_e = 70.23$	$n_F' - n_C' = 0.006965$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.46181
$n_{1970.1}$	1970.1	1.46738
$n_{1529.6}$	1529.6	1.47312
$n_{1060.0}$	1060.0	1.47855
$n_t$	1014.0	1.47912
$n_s$	852.1	1.48137
$n_f$	706.5	1.48410
$n_C$	656.3	1.48535
$n_{C'}$	643.8	1.48569
$n_{632.8}$	632.8	1.48601
$n_D$	589.3	1.48743
$n_d$	587.6	1.48749
$n_e$	546.1	1.48914
$n_F$	486.1	1.49227
$n_{F'}$	480.0	1.49266
$n_g$	435.8	1.49593
$n_h$	404.7	1.49894
$n_i$	365.0	1.50401
$n_{334.1}$	334.1	1.50939
$n_{312.6}$	312.6	1.51428
$n_{296.7}$	296.7	1.51867
$n_{280.4}$	280.4	1.52415
$n_{248.3}$	248.3	

Constants of Dispersion Formula	
$B_1$	0.84430934
$B_2$	0.344147824
$B_3$	0.910790213
$C_1$	0.00475111955
$C_2$	0.0149814849
$C_3$	97.8600293

Constants of Formula for $dn/dT$	
$D_0$	-7.24E-06
$D_1$	1.58E-08
$D_2$	-9.51E-12
$E_0$	3.51E-07
$E_1$	4.61E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.156

Temperature Coefficients of the 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	-1.5	-1.2	-0.9	-3.5	-3.2	-2.9
+20/+40	-1.4	-1.0	-0.6	-2.6	-2.3	-2.0
+60/+80	-1.2	-0.7	-0.3	-2.2	-1.8	-1.4

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.680	0.380
2325	0.830	0.630
1970	0.971	0.930
1530	0.986	0.965
1060	0.999	0.998
700	0.998	0.995
660	0.996	0.991
620	0.996	0.990
580	0.996	0.991
546	0.996	0.991
500	0.996	0.989
460	0.996	0.990
436	0.997	0.992
420	0.997	0.993
405	0.998	0.994
400	0.998	0.994
390	0.998	0.994
380	0.996	0.991
370	0.997	0.992
365	0.997	0.992
350	0.995	0.988
334	0.991	0.977
320	0.980	0.950
310	0.954	0.890
300	0.900	0.760
290	0.760	0.500
280	0.500	0.180
270	0.220	0.020
260	0.060	0.000
250	0.000	

Color Code	
$\lambda_{80} / \lambda_5$	30/26

Remarks
suitable for precision molding, step 0.5 available

Relative Partial Dispersion	
$P_{s,t}$	0.3252
$P_{C,s}$	0.5740
$P_{d,C}$	0.3097
$P_{e,d}$	0.2388
$P_{g,F}$	0.5290
$P_{i,h}$	0.7319
$P'_{s,t}$	0.3232
$P'_{C,s}$	0.6201
$P'_{d,C'}$	0.2584
$P'_{e,d}$	0.2374
$P'_{g,F'}$	0.4704
$P'_{i,h}$	0.7276

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	0.0202
$\Delta P_{C,s}$	0.0070
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	0.0036
$\Delta P_{i,g}$	0.0322

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.2
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	10.0
$T_g$ [°C]	466
$T_{10}^{13}$ [°C]	469
$T_{10}^{7.6}$ [°C]	672
$c_p$ [J/(g·K)]	0.808
$\lambda$ [W/(m·K)]	0.925
AT [°C]	557
$\rho$ [g/cm <sup>3</sup> ]	2.45
E [ $10^3$ N/mm <sup>2</sup> ]	62
$\mu$	0.232
K [ $10^{-6}$ mm <sup>2</sup> /N]	2.91
HK <sub>0.1/20</sub>	520
HG	3
Abrasion Aa	109
CR	2
FR	1
SR	4
AR	2
PR	2.3
SR-J	5
WR-J	4