

## 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
$n_r$	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	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.679	0.380
2325	0.831	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	0.896	0.760
290	0.758	0.500
280	0.504	0.180
270	0.221	0.020
260	0.060	
250		

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 Dispersions $\Delta P$ 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

Constants of Dispersion Formula	
$B_1$	0.844309338
$B_2$	0.344147824
$B_3$	0.910790213
$C_1$	0.00475111955
$C_2$	0.0149814849
$C_3$	97.8600293

Constants of Dispersion $dn/dT$	
$D_0$	$-7.24 \cdot 10^{-6}$
$D_1$	$1.58 \cdot 10^{-8}$
$D_2$	$-9.51 \cdot 10^{-12}$
$E_0$	$3.51 \cdot 10^{-7}$
$E_1$	$4.61 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.156

Color Code	
$\lambda_{80}/\lambda_5$	30/26
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	
suitable for precision molding, step 0.5 available	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	9.2
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	10.0
$T_g [^\circ C]$	466
$T_{10}^{13.0} [^\circ C]$	469
$T_{10}^{7.6} [^\circ C]$	672
$c_p [J/(g \cdot K)]$	0.808
$\lambda [W/(m \cdot K)]$	0.925
$AT [^\circ C]$	557
$\rho [g/cm^3]$	2.45
$E [10^3 N/mm^2]$	62
$\mu$	0.232
$K [10^{-6} mm^2/N]$	2.91
$HK_{0.1/20}$	520
$HG$	3
$Abrasion Aa$	109
$CR$	2
$FR$	1
$SR$	4
$AR$	2
$PR$	2.3
$SR-J$	5
$WR-J$	4

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	-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