

**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	

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

Temperature Coefficients of Refractive Index						
	$\Delta n_{rel} / \Delta T [10^{-6} / K]$			$\Delta n_{abs} / \Delta T [10^{-6} / K]$		
[°C]	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	0.679	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	0.996
660	0.998	0.994
620	0.997	0.993
580	0.998	0.994
546	0.998	0.994
500	0.997	0.993
460	0.997	0.993
436	0.997	0.993
420	0.997	0.993
405	0.998	0.994
400	0.998	0.994
390	0.998	0.994
380	0.996	0.990
370	0.997	0.992
365	0.997	0.992
350	0.995	0.987
334	0.989	0.972
320	0.971	0.930
310	0.941	0.860
300	0.867	0.700
290	0.693	0.400
280	0.397	0.110
270	0.070	
260		
250		

Color Code	
$\lambda_{80} / \lambda_{5}$	30/27
(*= $\lambda_{70} / \lambda_{5}$ )	

**Remarks**  
suitable for precision molding

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

### 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
<b>HG</b>	3
<b>HG-J</b>	109
<b>B</b>	1
<b>CR</b>	2
<b>FR</b>	1
<b>SR</b>	4
<b>AR</b>	2
<b>PR</b>	2.3
<b>SR-J</b>	5
<b>WR-J</b>	4