

## N-KF9 523515.250

$n_d = 1.52346$

$v_d = 51.54$

$n_F - n_C = 0.010156$

$n_e = 1.52588$

$v_e = 51.26$

$n_F - n_C = 0.010258$

### Refractive Indices

	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.49608
$n_{1970.1}$	1970.1	1.50095
$n_{1529.6}$	1529.6	1.50616
$n_{1060.0}$	1060.0	1.51170
$n_t$	1014.0	1.51234
$n_s$	852.1	1.51507
$n_r$	706.5	1.51867
$n_C$	656.3	1.52040
$n_{C'}$	643.8	1.52089
$n_{632.8}$	632.8	1.52134
$n_D$	589.3	1.52337
$n_d$	587.6	1.52346
$n_e$	546.1	1.52588
$n_F$	486.1	1.53056
$n_{F'}$	480.0	1.53114
$n_g$	435.8	1.53620
$n_h$	404.7	1.54096
$n_i$	365.0	1.54925
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

### Constants of Dispersion Formula

$B_1$	1.192867780
$B_2$	0.089334657
$B_3$	0.920819805
$C_1$	0.008391547
$C_2$	0.0404010786
$C_3$	112.57244600

### Constants of Formula for $dn/dT$

$D_0$	-1.66E-06
$D_1$	8.44E-09
$D_2$	-1.01E-11
$E_0$	6.10E-07
$E_1$	6.96E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.217

### 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	1.1	1.9	2.6	-0.9	-0.2	0.5
+20/+40	0.9	1.8	2.6	-0.4	0.4	1.3
+60/+80	0.9	1.8	2.8	-0.1	0.8	1.7

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.620	0.300
2325	0.710	0.430
1970	0.890	0.740
1530	0.992	0.981
1060	0.998	0.995
700	0.999	0.997
660	0.998	0.995
620	0.998	0.994
580	0.998	0.996
546	0.998	0.996
500	0.998	0.994
460	0.996	0.990
436	0.995	0.988
420	0.994	0.985
405	0.990	0.975
400	0.986	0.965
390	0.976	0.940
380	0.950	0.880
370	0.900	0.770
365	0.860	0.680
350	0.540	0.210
334	0.030	
320		
310		
300		
290		
280		
270		
260		
250		

### Color Code

$\lambda_{80} / \lambda_5$  37/34

### Remarks

### Relative Partial Dispersion P

$P_{s,t}$	0.2683
$P_{C,s}$	0.5249
$P_{d,C}$	0.3012
$P_{e,d}$	0.2380
$P_{g,F}$	0.5558
$P_{i,h}$	0.8161

### Relative Partial Dispersion P'

$P'_{s,t}$	0.2657
$P'_{C,s}$	0.5669
$P'_{d,C'}$	0.2509
$P'_{e,d}$	0.2356
$P'_{g,F'}$	0.4930
$P'_{i,h}$	0.8080

### Deviation of Rel. Partial Disp.

#### $\Delta P$ from the normal line

$\Delta P_{C,t}$	0.0038
$\Delta P_{C,s}$	0.0018
$\Delta P_{F,e}$	-0.0004
$\Delta P_{g,F}$	-0.0014
$\Delta P_{i,g}$	-0.0075

### Chemical Properties

CR	1
FR	0
SR	1
AR	1
PR	1

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.6
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	11.0
$T_g$ [°C]	476
$T_{10}^{13}$ [°C]	476
$T_{10}^{7.6}$ [°C]	640
$c_p$ [J/(g*K)]	0.860
$\lambda$ [W/(m*K)]	1.040
$\rho$ [g/cm <sup>3</sup> ]	2.50
$E$ [ $10^3$ N/mm <sup>2</sup> ]	66
$\mu$	0.225
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.74
$HK_{0.1/20}$	480
HG	1