

N-SF4 755274.315

$n_d = 1.75513$

$v_d = 27.38$

$n_F - n_C = 0.027583$

$n_e = 1.76164$

$v_e = 27.16$

$n_F - n_C = 0.028044$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.70434
$n_{1970.1}$	1970.1	1.71052
$n_{1529.6}$	1529.6	1.71773
$n_{1060.0}$	1060.0	1.72717
n_t	1014.0	1.72846
n_s	852.1	1.73432
n_r	706.5	1.74286
n_C	656.3	1.74719
$n_{C'}$	643.8	1.74842
$n_{632.8}$	632.8	1.74959
n_D	589.3	1.75489
n_d	587.6	1.75513
n_e	546.1	1.76164
n_F	486.1	1.77477
$n_{F'}$	480.0	1.77647
n_g	435.8	1.79158
n_h	404.7	1.80668
n_i	365.0	
$n_{334.1}$	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	1.677802820
B_2	0.282849893
B_3	1.635392760
C_1	0.012679345
C_2	0.0602038419
C_3	145.76049600

Constants of Formula for dn/dT

D_0	-4.88E-06
D_1	6.57E-09
D_2	-2.72E-11
E_0	9.67E-07
E_1	1.48E-09
λ_{TK} [μm]	0.282

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	-0.5	1.2	3.5	-2.9	-1.2	1.0
+20/+40	-0.7	1.4	4.2	-2.2	-0.1	2.6
+60/+80	-0.8	1.6	4.7	-1.9	0.4	3.5

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.780	0.530
2325	0.820	0.600
1970	0.940	0.860
1530	0.992	0.980
1060	0.999	0.999
700	0.994	0.984
660	0.991	0.978
620	0.992	0.979
580	0.993	0.982
546	0.991	0.977
500	0.979	0.950
460	0.961	0.910
436	0.940	0.860
420	0.920	0.800
405	0.860	0.690
400	0.830	0.630
390	0.740	0.470
380	0.560	0.240
370	0.250	0.030
365	0.100	0.000
350	0.000	0.000
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 43/36

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2123
$P_{C,s}$	0.4666
$P_{d,C}$	0.2880
$P_{e,d}$	0.2358
$P_{g,F}$	0.6096
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2088
$P'_{C,s}$	0.5030
$P'_{d,C'}$	0.2392
$P'_{e,d}$	0.2319
$P'_{g,F'}$	0.5390
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0040
$\Delta P_{C,s}$	-0.0002
$\Delta P_{F,e}$	0.0022
$\Delta P_{g,F}$	0.0118
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	1.3
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	9.5
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	10.9
T_g [°C]	570
T_{10}^{13} [°C]	559
$T_{10}^{7.6}$ [°C]	661
c_p [J/(g·K)]	0.760
λ [W/(m·K)]	0.950
ρ [g/cm ³]	3.15
E [10^3 N/mm ²]	90
μ	0.256
K [10^{-6} mm ² /N]	2.76
$HK_{0.1/20}$	520
HG	6