

N-SF5 673323.286

$n_d = 1.67271$
 $n_e = 1.67763$

$v_d = 32.25$
 $v_e = 32.00$

$n_F - n_C = 0.020858$
 $n_{F'} - n_{C'} = 0.021177$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.62935
$n_{1970.1}$	1970.1	1.63554
$n_{1529.6}$	1529.6	1.64249
$n_{1060.0}$	1060.0	1.65080
n_t	1014.0	1.65188
n_s	852.1	1.65661
n_r	706.5	1.66330
n_C	656.3	1.66664
$n_{C'}$	643.8	1.66759
$n_{632.8}$	632.8	1.66848
n_D	589.3	1.67253
n_d	587.6	1.67271
n_e	546.1	1.67763
n_F	486.1	1.68750
$n_{F'}$	480.0	1.68876
n_g	435.8	1.69998
n_h	404.7	1.71106
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	1.524818890
B_2	0.187085527
B_3	1.427290150
C_1	0.011254756
C_2	0.0588995392
C_3	129.14167500

Constants of Formula for dn/dT

D_0	-2.51E-07
D_1	1.07E-08
D_2	-2.40E-11
E_0	7.85E-07
E_1	1.15E-09
λ_{TK} [μm]	0.278

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	1.8	3.1	4.8	-0.5	0.8	2.5
+20/+40	1.8	3.4	5.5	0.4	2.0	4.0
+60/+80	1.9	3.7	6.0	0.8	2.5	4.8

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.760	0.500
2325	0.830	0.630
1970	0.950	0.880
1530	0.990	0.975
1060	0.998	0.994
700	0.996	0.989
660	0.995	0.987
620	0.995	0.988
580	0.996	0.991
546	0.995	0.988
500	0.990	0.976
460	0.982	0.956
436	0.973	0.940
420	0.963	0.910
405	0.930	0.830
400	0.910	0.780
390	0.830	0.620
380	0.640	0.330
370	0.280	0.040
365	0.120	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 40/36

Remarks

step 0.5 available

Relative Partial Dispersion P

$P_{s,t}$	0.2270
$P_{C,s}$	0.4807
$P_{d,C}$	0.2910
$P_{e,d}$	0.2362
$P_{g,F}$	0.5984
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2236
$P'_{C,s}$	0.5184
$P'_{d,C'}$	0.2418
$P'_{e,d}$	0.2327
$P'_{g,F'}$	0.5295
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0097
$\Delta P_{C,s}$	0.0027
$\Delta P_{F,e}$	0.0014
$\Delta P_{g,F}$	0.0088
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	1
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	7.9
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	9.2
T_g [°C]	578
T_{10}^{13} [°C]	576
$T_{10}^{7.6}$ [°C]	693
c_p [J/(g·K)]	0.770
λ [W/(m·K)]	1.000
ρ [g/cm ³]	2.86
E [10^3 N/mm ²]	87
μ	0.237
K [10^{-6} mm ² /N]	2.99
$HK_{0.1/20}$	620
HG	3