

N-SF6HTultra 805254.337

$n_d = 1.80518$

$v_d = 25.36$

$n_F - n_C = 0.031750$

$n_e = 1.81266$

$v_e = 25.16$

$n_F - n_C = 0.032304$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.74895
$n_{1970.1}$	1970.1	1.75541
$n_{1529.6}$	1529.6	1.76307
$n_{1060.0}$	1060.0	1.77341
n_t	1014.0	1.77486
n_s	852.1	1.78144
n_r	706.5	1.79114
n_C	656.3	1.79608
$n_{C'}$	643.8	1.79749
$n_{632.8}$	632.8	1.79883
n_D	589.3	1.80491
n_d	587.6	1.80518
n_e	546.1	1.81266
n_F	486.1	1.82783
$n_{F'}$	480.0	1.82980
n_g	435.8	1.84738
n_h	404.7	1.86506
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	1.779317630
B_2	0.338149866
B_3	2.087344740
C_1	0.013371418
C_2	0.0617533621
C_3	174.01759000

Constants of Formula for dn/dT

D_0	-4.93E-06
D_1	7.02E-09
D_2	-2.40E-11
E_0	9.84E-07
E_1	1.54E-09
λ_{TK} [μm]	0.290

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	-0.7	1.2	3.9	-3.0	-1.2	1.3
+20/+40	-0.8	1.5	4.8	-2.3	0.0	3.1
+60/+80	-0.8	1.8	5.4	-2.0	0.6	4.1

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.800	0.570
2325	0.830	0.620
1970	0.950	0.880
1530	0.992	0.981
1060	0.999	0.999
700	0.994	0.984
660	0.991	0.978
620	0.992	0.980
580	0.994	0.984
546	0.992	0.981
500	0.984	0.960
460	0.972	0.930
436	0.961	0.910
420	0.950	0.870
405	0.910	0.790
400	0.890	0.740
390	0.800	0.580
380	0.600	0.280
370	0.220	0.020
365	0.000	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{80} / \lambda_{5}$ 43/37

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2074
$P_{C,s}$	0.4610
$P_{d,C}$	0.2867
$P_{e,d}$	0.2356
$P_{g,F}$	0.6158
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2039
$P'_{C,s}$	0.4969
$P'_{d,C'}$	0.2380
$P'_{e,d}$	0.2315
$P'_{g,F'}$	0.5443
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0031
$\Delta P_{C,s}$	-0.0010
$\Delta P_{F,e}$	0.0027
$\Delta P_{g,F}$	0.0146
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	2
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	9.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	10.3
T_g [°C]	589
T_{10}^{13} [°C]	593
$T_{10}^{7.6}$ [°C]	669
c_p [J/(g·K)]	0.690
λ [W/(m·K)]	0.960
ρ [g/cm ³]	3.37
E [10^3 N/mm ²]	93
μ	0.262
K [10^{-6} mm ² /N]	2.82
$HK_{0.1/20}$	550
HG	4