

N-SF15 699302.292

$n_d = 1.69892$

$v_d = 30.20$

$n_F - n_C = 0.023142$

$n_e = 1.70438$

$v_e = 29.96$

$n_F - n_C = 0.023511$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.65267
$n_{1970.1}$	1970.1	1.65899
$n_{1529.6}$	1529.6	1.66616
$n_{1060.0}$	1060.0	1.67494
n_t	1014.0	1.67609
n_s	852.1	1.68122
n_r	706.5	1.68854
n_C	656.3	1.69222
$n_{C'}$	643.8	1.69326
$n_{632.8}$	632.8	1.69425
n_D	589.3	1.69872
n_d	587.6	1.69892
n_e	546.1	1.70438
n_F	486.1	1.71536
$n_{F'}$	480.0	1.71677
n_g	435.8	1.72933
n_h	404.7	1.74182
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	1.570556340
B_2	0.218987094
B_3	1.508240170
C_1	0.011650701
C_2	0.0597856897
C_3	132.70933900

Constants of Formula for dn/dT

D_0	-7.15E-07
D_1	1.04E-08
D_2	-2.62E-11
E_0	8.56E-07
E_1	1.29E-09
λ_{TK} [μm]	0.281

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	1.6	3.1	5.0	-0.7	0.8	2.6
+20/+40	1.6	3.4	5.8	0.2	2.0	4.3
+60/+80	1.7	3.7	6.4	0.6	2.6	5.2

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.760	0.510
2325	0.840	0.640
1970	0.954	0.890
1530	0.990	0.976
1060	0.998	0.996
700	0.995	0.988
660	0.993	0.983
620	0.994	0.984
580	0.994	0.986
546	0.994	0.985
500	0.988	0.970
460	0.977	0.940
436	0.964	0.910
420	0.940	0.860
405	0.890	0.740
400	0.860	0.680
390	0.750	0.480
380	0.530	0.200
370	0.160	0.010
365	0.040	
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

$\lambda_{80} / \lambda_{5}$ 42/37

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2216
$P_{C,s}$	0.4751
$P_{d,C}$	0.2897
$P_{e,d}$	0.2360
$P_{g,F}$	0.6038
$P_{i,h}$	

Relative Partial Dispersion P'

$P'_{s,t}$	0.2181
$P'_{C,s}$	0.5122
$P'_{d,C'}$	0.2406
$P'_{e,d}$	0.2323
$P'_{g,F'}$	0.5341
$P'_{i,h}$	

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0085
$\Delta P_{C,s}$	0.0018
$\Delta P_{F,e}$	0.0018
$\Delta P_{g,F}$	0.0108
$\Delta P_{i,g}$	

Chemical Properties

CR	1
FR	0
SR	1
AR	1
PR	1

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	8.0
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	9.3
T_g [°C]	580
T_{10}^{13} [°C]	578
$T_{10}^{7.6}$ [°C]	692
c_p [J/(g·K)]	0.760
λ [W/(m·K)]	1.040
ρ [g/cm ³]	2.92
E [10^3 N/mm ²]	90
μ	0.243
K [10^{-6} mm ² /N]	3.04
$HK_{0.1/20}$	610
HG	3