

N-SSK5 658509.371

$n_d = 1.65844$

$v_d = 50.88$

$n_F - n_C = 0.012940$

$n_e = 1.66152$

$v_e = 50.59$

$n_F - n_C = 0.013075$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.62581
$n_{1970.1}$	1970.1	1.63128
$n_{1529.6}$	1529.6	1.63720
$n_{1060.0}$	1060.0	1.64371
n_t	1014.0	1.64450
n_s	852.1	1.64785
n_r	706.5	1.65237
n_C	656.3	1.65455
$n_{C'}$	643.8	1.65517
$n_{632.8}$	632.8	1.65574
n_D	589.3	1.65833
n_d	587.6	1.65844
n_e	546.1	1.66152
n_F	486.1	1.66749
$n_{F'}$	480.0	1.66824
n_g	435.8	1.67471
n_h	404.7	1.68079
n_i	365.0	1.69139
$n_{334.1}$	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	1.592226590
B_2	0.103520774
B_3	1.051740160
C_1	0.009202846
C_2	0.0423530072
C_3	106.92737400

Constants of Formula for dn/dT

D_0	7.29E-07
D_1	1.17E-08
D_2	-1.50E-11
E_0	6.08E-07
E_1	7.66E-10
λ_{TK} [μm]	0.189

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	2.2	3.0	3.9	0.0	0.8	1.6
+20/+40	2.2	3.2	4.2	0.8	1.8	2.7
+60/+80	2.4	3.5	4.5	1.2	2.3	3.4

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.730	0.450
2325	0.850	0.660
1970	0.963	0.910
1530	0.992	0.980
1060	0.996	0.990
700	0.997	0.993
660	0.997	0.992
620	0.997	0.992
580	0.997	0.993
546	0.996	0.990
500	0.993	0.982
460	0.987	0.968
436	0.982	0.956
420	0.976	0.940
405	0.963	0.910
400	0.959	0.900
390	0.940	0.860
380	0.900	0.760
370	0.800	0.580
365	0.730	0.450
350	0.340	0.060
334	0.020	
320		
310		
300		
290		
280		
270		
260		
250		

Color Code

λ_{80} / λ_5 38/34

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2592
$P_{C,s}$	0.5181
$P_{d,C}$	0.3003
$P_{e,d}$	0.2380
$P_{g,F}$	0.5575
$P_{i,h}$	0.8192

Relative Partial Dispersion P'

$P'_{s,t}$	0.2566
$P'_{C,s}$	0.5598
$P'_{d,C'}$	0.2502
$P'_{e,d}$	0.2355
$P'_{g,F'}$	0.4944
$P'_{i,h}$	0.8108

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	-0.0090
$\Delta P_{C,s}$	-0.0034
$\Delta P_{F,e}$	0.0001
$\Delta P_{g,F}$	-0.0007
$\Delta P_{i,g}$	-0.0081

Chemical Properties

CR	2
FR	3
SR	52.2
AR	2.2
PR	3.2

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.8
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	8.0
T_g [°C]	645
T_{10}^{13} [°C]	637
$T_{10}^{7.6}$ [°C]	751
c_p [J/(g·K)]	0.574
λ [W/(m·K)]	
ρ [g/cm ³]	3.71
E [10^3 N/mm ²]	88
μ	0.278
K [10^{-6} mm ² /N]	1.90
$HK_{0.1/20}$	590
HG	5