

K7 511604.253

$n_d = 1.51112$

$v_d = 60.41$

$n_F - n_C = 0.008461$

$n_e = 1.51314$

$v_e = 60.15$

$n_F - n_C = 0.008531$

Refractive Indices

	λ [nm]	
$n_{2325.4}$	2325.4	1.48553
$n_{1970.1}$	1970.1	1.49046
$n_{1529.6}$	1529.6	1.49565
$n_{1060.0}$	1060.0	1.50091
n_t	1014.0	1.50150
n_s	852.1	1.50394
n_r	706.5	1.50707
n_C	656.3	1.50854
$n_{C'}$	643.8	1.50895
$n_{632.8}$	632.8	1.50934
n_D	589.3	1.51105
n_d	587.6	1.51112
n_e	546.1	1.51314
n_F	486.1	1.51700
$n_{F'}$	480.0	1.51748
n_g	435.8	1.52159
n_h	404.7	1.52540
n_i	365.0	1.53189
$n_{334.1}$	334.1	1.53891
$n_{312.6}$	312.6	1.54537
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Constants of Dispersion Formula

B_1	1.127355500
B_2	0.124412303
B_3	0.827100531
C_1	0.007203417
C_2	0.0269835916
C_3	100.38458800

Constants of Formula for dn/dT

D_0	-1.67E-06
D_1	8.80E-09
D_2	-2.86E-11
E_0	5.42E-07
E_1	7.81E-10
λ_{TK} [μm]	0.172

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	1.0	1.6	2.1	-1.0	-0.4	0.1
+20/+40	0.9	1.6	2.2	-0.4	0.2	0.9
+60/+80	0.8	1.6	2.3	-0.2	0.6	1.2

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.650	0.340
2325	0.760	0.500
1970	0.910	0.790
1530	0.992	0.980
1060	0.998	0.994
700	0.998	0.996
660	0.998	0.995
620	0.998	0.995
580	0.998	0.994
546	0.998	0.994
500	0.997	0.993
460	0.996	0.990
436	0.996	0.990
420	0.996	0.990
405	0.996	0.990
400	0.996	0.990
390	0.995	0.988
380	0.993	0.983
370	0.990	0.976
365	0.988	0.971
350	0.976	0.940
334	0.910	0.780
320	0.710	0.420
310	0.400	0.100
300	0.090	
290		
280		
270		
260		
250		

Color Code

$\lambda_{80} / \lambda_{5}$ 33/30

Remarks

Relative Partial Dispersion P

$P_{s,t}$	0.2880
$P_{C,s}$	0.5436
$P_{d,C}$	0.3049
$P_{e,d}$	0.2385
$P_{g,F}$	0.5422
$P_{i,h}$	0.7677

Relative Partial Dispersion P'

$P'_{s,t}$	0.2857
$P'_{C,s}$	0.5874
$P'_{d,C'}$	0.2542
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4814
$P'_{i,h}$	0.7614

Deviation of Rel. Partial Disp.

ΔP from the normal line

$\Delta P_{C,t}$	0.0001
$\Delta P_{C,s}$	-0.0001
$\Delta P_{F,e}$	0.0000
$\Delta P_{g,F}$	0.0000
$\Delta P_{i,g}$	-0.0001

Chemical Properties

CR	3
FR	0
SR	2
AR	1
PR	2.3

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	8.4
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	9.7
T_g [°C]	513
T_{10}^{13} [°C]	
$T_{10}^{7.6}$ [°C]	712
c_p [J/(g·K)]	
λ [W/(m·K)]	
ρ [g/cm ³]	2.53
E [10^3 N/mm ²]	69
μ	0.214
K [10^{-6} mm ² /N]	2.95
$HK_{0.1/20}$	520
HG	3