

**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		
	$\lambda$ [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
$n_f$	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	
$B_1$	1.12735550
$B_2$	0.124412303
$B_3$	0.827100531
$C_1$	0.00720341707
$C_2$	0.0269835916
$C_3$	100.3845880

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
$\lambda_{TK}$ [ $\mu\text{m}$ ]	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 $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
<b>2500</b>	0.650	0.340
<b>2325</b>	0.760	0.500
<b>1970</b>	0.910	0.790
<b>1530</b>	0.992	0.980
<b>1060</b>	0.998	0.994
<b>700</b>	0.998	0.996
<b>660</b>	0.998	0.995
<b>620</b>	0.998	0.995
<b>580</b>	0.998	0.994
<b>546</b>	0.998	0.994
<b>500</b>	0.997	0.993
<b>460</b>	0.996	0.990
<b>436</b>	0.996	0.990
<b>420</b>	0.996	0.990
<b>405</b>	0.996	0.990
<b>400</b>	0.996	0.990
<b>390</b>	0.995	0.988
<b>380</b>	0.993	0.983
<b>370</b>	0.990	0.976
<b>365</b>	0.988	0.971
<b>350</b>	0.976	0.940
<b>334</b>	0.910	0.780
<b>320</b>	0.710	0.420
<b>310</b>	0.400	0.100
<b>300</b>	0.090	
<b>290</b>		
<b>280</b>		
<b>270</b>		
<b>260</b>		
<b>250</b>		

Color Code	
$\lambda_{80} / \lambda_5$	33/30
(* = $\lambda_{70}/\lambda_5$ )	

Remarks

Relative Partial Dispersion	
$P_{s,t}$	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
$P'_{s,t}$	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 Relative Partial Dispersion $\Delta P$ 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

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)]	
$\lambda$ [W/(m·K)]	
$\rho$ [g/cm <sup>3</sup> ]	2.53
$E$ [ $10^3$ N/mm <sup>2</sup> ]	69
$\mu$	0.214
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.95
$HK_{0.1/20}$	520
<b>HG</b>	3
<b>CR</b>	3
<b>FR</b>	0
<b>SR</b>	2
<b>AR</b>	1
<b>PR</b>	2.3