

## LF5HTi 581409.322

$n_d = 1.58144$	$v_d = 40.89$	$n_F - n_C = 0.014220$
$n_e = 1.58482$	$v_e = 40.61$	$n_F' - n_C' = 0.014400$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.54970
$n_{1970.1}$	1970.1	1.55448
$n_{1529.6}$	1529.6	1.55978
$n_{1060.0}$	1060.0	1.56596
$n_t$	1014.0	1.56674
$n_s$	852.1	1.57015
$n_f$	706.5	1.57490
$n_C$	656.3	1.57724
$n_{C'}$	643.8	1.57790
$n_{632.8}$	632.8	1.57852
$n_D$	589.3	1.58132
$n_d$	587.6	1.58144
$n_e$	546.1	1.58482
$n_F$	486.1	1.59145
$n_{F'}$	480.0	1.59230
$n_g$	435.8	1.59963
$n_h$	404.7	1.60665
$n_i$	365.0	1.61921
$n_{334.1}$	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	
$B_1$	1.28552924
$B_2$	0.158357622
$B_3$	0.892175122
$C_1$	0.00939886260
$C_2$	0.0452566659
$C_3$	110.5448290

Constants of Formula for $dn/dT$	
$D_0$	-2.26E-06
$D_1$	1.17E-08
$D_2$	-4.14E-11
$E_0$	8.24E-07
$E_1$	7.78E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.232

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	1.8	3.0	-1.4	-0.3	0.8
+20/+40	0.8	2.0	3.4	-0.6	0.7	2.0
+60/+80	0.8	2.2	3.6	-0.3	1.1	2.5

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.780	0.530
2325	0.830	0.630
1970	0.940	0.850
1530	0.996	0.991
1060	0.999	0.999
700	0.999	0.999
660	0.999	0.999
620	0.999	0.999
580	0.999	0.999
546	0.999	0.999
500	0.999	0.998
460	0.999	0.998
436	0.999	0.998
420	0.999	0.997
405	0.999	0.997
400	0.999	0.997
390	0.999	0.996
380	0.998	0.995
370	0.997	0.993
365	0.996	0.991
350	0.985	0.962
334	0.890	0.750
320	0.380	0.090
310	0.020	0.000
300	0.000	
290		
280		
270		
260		
250		

Color Code	
$\lambda_{80} / \lambda_5$	33/31

Remarks	
i-line glass	

Relative Partial Dispersion	
$P_{s,t}$	0.2401
$P_{C,s}$	0.4982
$P_{d,C}$	0.2959
$P_{e,d}$	0.2373
$P_{g,F}$	0.5746
$P_{i,h}$	0.8831
$P'_{s,t}$	0.2371
$P'_{C,s}$	0.5380
$P'_{d,C'}$	0.2462
$P'_{e,d}$	0.2343
$P'_{g,F'}$	0.5090
$P'_{i,h}$	0.8721

Deviation of Relative Partial Dispersion $\Delta P$ from the normal line	
$\Delta P_{C,t}$	-0.0006
$\Delta P_{C,s}$	0.0000
$\Delta P_{F,e}$	-0.0001
$\Delta P_{g,F}$	-0.0004
$\Delta P_{i,g}$	-0.0041

Other Properties	
$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.1
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	10.6
$T_g$ [°C]	419
$T_{10}^{13}$ [°C]	411
$T_{10}^{7.6}$ [°C]	585
$c_p$ [J/(g·K)]	0.657
$\lambda$ [W/(m·K)]	0.866
$\rho$ [g/cm <sup>3</sup> ]	3.22
$E$ [ $10^3$ N/mm <sup>2</sup> ]	59
$\mu$	0.223
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.83
$HK_{0.1/20}$	450
CR	2
FR	0
SR	1
AR	2.3
PR	2