

## N-SF11 785257.322

$n_d = 1.78472$	$v_d = 25.68$	$n_F - n_C = 0.030558$
$n_e = 1.79192$	$v_e = 25.47$	$n_{F'} - n_{C'} = 0.031088$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.72937
$n_{1970.1}$	1970.1	1.73600
$n_{1529.6}$	1529.6	1.74377
$n_{1060.0}$	1060.0	1.75401
$n_t$	1014.0	1.75542
$n_s$	852.1	1.76182
$n_r$	706.5	1.77119
$n_C$	656.3	1.77596
$n_{C'}$	643.8	1.77732
$n_{632.8}$	632.8	1.77860
$n_D$	589.3	1.78446
$n_d$	587.6	1.78472
$n_e$	546.1	1.79192
$n_F$	486.1	1.80651
$n_{F'}$	480.0	1.80841
$n_g$	435.8	1.82533
$n_h$	404.7	1.84235
$n_i$	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	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.826	0.620
2325	0.867	0.700
1970	0.965	0.915
1530	0.994	0.985
1060	0.999	0.998
700	0.994	0.985
660	0.992	0.981
620	0.992	0.981
580	0.994	0.984
546	0.991	0.978
500	0.981	0.953
460	0.967	0.920
436	0.946	0.870
420	0.919	0.810
405	0.852	0.670
400	0.815	0.600
390	0.686	0.390
380	0.428	0.120
370	0.083	0.002
365		
350		
334		
320		
310		
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2095
$P_{C,s}$	0.4625
$P_{d,C}$	0.2868
$P_{e,d}$	0.2355
$P_{g,F}$	0.6156
$P_{i,h}$	
$P'_{s,t}$	0.2059
$P'_{C',s}$	0.4984
$P'_{d,C'}$	0.2381
$P'_{e,d}$	0.2315
$P'_{g,F'}$	0.5442
$P'_{i,h}$	

Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"	
$\Delta P_{C,t}$	0.0052
$\Delta P_{C,s}$	-0.0003
$\Delta P_{F,e}$	0.0027
$\Delta P_{g,F}$	0.0150
$\Delta P_{i,g}$	

Constants of Dispersion Formula	
$B_1$	1.73759695
$B_2$	0.313747346
$B_3$	1.89878101
$C_1$	0.013188707
$C_2$	0.0623068142
$C_3$	155.23629

Constants of Dispersion $dn/dT$	
$D_0$	$-3.56 \cdot 10^{-6}$
$D_1$	$9.20 \cdot 10^{-9}$
$D_2$	$-2.10 \cdot 10^{-11}$
$E_0$	$9.65 \cdot 10^{-7}$
$E_1$	$1.44 \cdot 10^{-9}$
$\lambda_{TK}$ [μm]	0.294

Color Code	
$\lambda_{80}/\lambda_5$	44/37
(*= $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C}$ [ $10^{-6}/K$ ]	8.5
$\alpha_{+20/+300^\circ C}$ [ $10^{-6}/K$ ]	9.9
$T_g$ [°C]	592
$T_{10}^{13.0}$ [°C]	590
$T_{10}^{7.6}$ [°C]	688
$c_p$ [J/(g·K)]	0.710
$\lambda$ [W/(m·K)]	0.950
$\rho$ [g/cm <sup>3</sup> ]	3.22
$E$ [ $10^3$ N/mm <sup>2</sup> ]	92
$\mu$	0.257
$K$ [ $10^{-6}$ mm <sup>2</sup> /N]	2.94
$HK_{0.1/20}$	615
$HG$	4
$CR$	1
$FR$	0
$SR$	1
$AR$	1
$PR$	1

Temperature Coefficients of 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	0.1	2.0	4.6	-2.3	-0.5	2.1
+20/ +40	0.1	2.4	5.6	-1.4	0.8	4.0
+60/ +80	0.2	2.7	6.3	-1.0	1.5	5.1