

## N-SK2HT 607567.355

$n_d = 1.60738$	$v_d = 56.65$	$n_F - n_C = 0.010722$
$n_e = 1.60994$	$v_e = 56.37$	$n_{F'} - n_{C'} = 0.010821$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.57881
$n_{1970.1}$	1970.1	1.58378
$n_{1529.6}$	1529.6	1.58914
$n_{1060.0}$	1060.0	1.59490
$n_t$	1014.0	1.59558
$n_s$	852.1	1.59847
$n_r$	706.5	1.60230
$n_C$	656.3	1.60414
$n_{C'}$	643.8	1.60465
$n_{632.8}$	632.8	1.60513
$n_D$	589.3	1.60729
$n_d$	587.6	1.60738
$n_e$	546.1	1.60994
$n_F$	486.1	1.61486
$n_{F'}$	480.0	1.61547
$n_g$	435.8	1.62073
$n_h$	404.7	1.62562
$n_i$	365.0	1.63398
$n_{334.1}$	334.1	1.64304
$n_{312.6}$	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	0.807	0.585
2325	0.890	0.748
1970	0.971	0.930
1530	0.995	0.987
1060	0.998	0.996
700	0.999	0.997
660	0.998	0.996
620	0.998	0.996
580	0.999	0.997
546	0.999	0.997
500	0.998	0.995
460	0.997	0.992
436	0.996	0.991
420	0.997	0.992
405	0.996	0.991
400	0.996	0.990
390	0.994	0.986
380	0.992	0.980
370	0.987	0.968
365	0.983	0.957
350	0.955	0.892
334	0.869	0.703
320	0.654	0.346
310	0.385	0.092
300	0.130	
290	0.010	
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2690
$P_{C,s}$	0.5285
$P_{d,C}$	0.3027
$P_{e,d}$	0.2384
$P_{g,F}$	0.5477
$P_{i,h}$	0.7802
$P'_{s,t}$	0.2666
$P'_{C',s}$	0.5713
$P'_{d,C'}$	0.2523
$P'_{e,d}$	0.2362
$P'_{g,F'}$	0.4860
$P'_{i,h}$	0.7730

### Deviation of Relative Partial Dispersions $\Delta P$ from the "Normal Line"

$\Delta P_{C,t}$	-0.0162
$\Delta P_{C,s}$	-0.0064
$\Delta P_{F,e}$	0.0003
$\Delta P_{g,F}$	-0.0008
$\Delta P_{i,g}$	-0.0130

Constants of Dispersion Formula	
$B_1$	1.28189012
$B_2$	0.257738258
$B_3$	0.96818604
$C_1$	0.0072719164
$C_2$	0.0242823527
$C_3$	110.377773

Constants of Dispersion $dn/dT$	
$D_0$	$3.80 \cdot 10^{-6}$
$D_1$	$1.41 \cdot 10^{-8}$
$D_2$	$2.28 \cdot 10^{-11}$
$E_0$	$6.44 \cdot 10^{-7}$
$E_1$	$8.03 \cdot 10^{-11}$
$\lambda_{TK} [\mu m]$	0.108

Color Code	
$\lambda_{80}/\lambda_5$	33/28
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.0
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.1
$T_g [^\circ C]$	659
$T_{10}^{13.0} [^\circ C]$	659
$T_{10}^{7.6} [^\circ C]$	823
$c_p [J/(g \cdot K)]$	0.595
$\lambda [W/(m \cdot K)]$	0.776
$\rho [g/cm^3]$	3.55
$E [10^3 N/mm^2]$	78
$\mu$	0.263
$K [10^{-6} mm^2/N]$	2.31
$HK_{0.1/20}$	550
<b>HG</b>	2
<b>CR</b>	2
<b>FR</b>	0
<b>SR</b>	2.2
<b>AR</b>	1
<b>PR</b>	2.3

Temperature Coefficients of Refractive Index						
[ $^\circ C$ ]	$\Delta n_{rel}/\Delta T [10^{-6}/K]$			$\Delta n_{abs}/\Delta T [10^{-6}/K]$		
	1060.0	e	g	1060.0	e	g
-40/ -20	3.7	4.6	5.3	1.5	2.4	3.1
+20/ +40	3.6	4.5	5.3	2.3	3.1	3.9
+60/ +80	4.0	4.9	5.7	2.9	3.8	4.5