

## N-PSK3 552635.291

$n_d = 1.55232$	$v_d = 63.46$	$n_F - n_C = 0.008704$
$n_e = 1.55440$	$v_e = 63.23$	$n_{F'} - n_{C'} = 0.008767$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.52375
$n_{1970.1}$	1970.1	1.52954
$n_{1529.6}$	1529.6	1.53558
$n_{1060.0}$	1060.0	1.54154
$n_t$	1014.0	1.54218
$n_s$	852.1	1.54482
$n_r$	706.5	1.54811
$n_C$	656.3	1.54965
$n_{C'}$	643.8	1.55008
$n_{632.8}$	632.8	1.55048
$n_D$	589.3	1.55224
$n_d$	587.6	1.55232
$n_e$	546.1	1.55440
$n_F$	486.1	1.55835
$n_{F'}$	480.0	1.55885
$n_g$	435.8	1.56302
$n_h$	404.7	1.56688
$n_i$	365.0	1.57342
$n_{334.1}$	334.1	1.58041
$n_{312.6}$	312.6	1.58679
$n_{296.7}$	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	0.648	0.338
2325	0.809	0.588
1970	0.949	0.877
1530	0.991	0.978
1060	0.999	0.997
700	0.998	0.995
660	0.997	0.993
620	0.997	0.992
580	0.997	0.993
546	0.997	0.993
500	0.996	0.990
460	0.995	0.987
436	0.994	0.986
420	0.994	0.986
405	0.995	0.987
400	0.994	0.986
390	0.993	0.983
380	0.991	0.977
370	0.988	0.971
365	0.985	0.964
350	0.967	0.920
334	0.915	0.800
320	0.770	0.520
310	0.583	0.260
300	0.325	0.060
290	0.123	
280	0.026	
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.3023
$P_{C,s}$	0.5555
$P_{d,C}$	0.3069
$P_{e,d}$	0.2386
$P_{g,F}$	0.5365
$P_{i,h}$	0.7509
$P'_{s,t}$	0.3001
$P'_{C',s}$	0.6002
$P'_{d,C'}$	0.2559
$P'_{e,d}$	0.2369
$P'_{g,F'}$	0.4767
$P'_{i,h}$	0.7454

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

$\Delta P_{C,t}$	0.0118
$\Delta P_{C,s}$	0.0047
$\Delta P_{F,e}$	-0.0005
$\Delta P_{g,F}$	-0.0005
$\Delta P_{i,g}$	0.0016

Constants of Dispersion Formula	
$B_1$	0.88727211
$B_2$	0.489592425
$B_3$	1.04865296
$C_1$	0.00469824067
$C_2$	0.0161818463
$C_3$	104.374975

Constants of Dispersion $dn/dT$	
$D_0$	$2.03 \cdot 10^{-6}$
$D_1$	$1.19 \cdot 10^{-8}$
$D_2$	$2.46 \cdot 10^{-11}$
$E_0$	$3.14 \cdot 10^{-7}$
$E_1$	$2.45 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.235

Color Code	
$\lambda_{80}/\lambda_{5}$	33/28
(* = $\lambda_{70}/\lambda_{5}$ )	

Remarks	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	6.2
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	7.3
$T_g [^\circ C]$	599
$T_{10}^{13.0} [^\circ C]$	597
$T_{10}^{7.6} [^\circ C]$	736
$c_p [J/(g \cdot K)]$	0.682
$\lambda [W/(m \cdot K)]$	0.990
$\rho [g/cm^3]$	2.91
$E [10^3 N/mm^2]$	84
$\mu$	0.226
$K [10^{-6} mm^2/N]$	2.48
$HK_{0.1/20}$	630
<b>HG</b>	2
<b>CR</b>	3
<b>FR</b>	0
<b>SR</b>	2.2
<b>AR</b>	2
<b>PR</b>	2

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	2.6	3.1	3.6	0.6	1.0	1.5
+20/ +40	2.5	3.0	3.5	1.2	1.6	2.1
+60/ +80	2.7	3.2	3.8	1.7	2.2	2.7