

## N-PSK53A 618634.357

$n_d = 1.61800$	$v_d = 63.39$	$n_F - n_C = 0.009749$
$n_e = 1.62033$	$v_e = 63.10$	$n_{F'} - n_{C'} = 0.009831$

Refractive Indices		
	$\lambda$ [nm]	
$n_{2325.4}$	2325.4	1.59015
$n_{1970.1}$	1970.1	1.59528
$n_{1529.6}$	1529.6	1.60073
$n_{1060.0}$	1060.0	1.60641
$n_t$	1014.0	1.60706
$n_s$	852.1	1.60979
$n_r$	706.5	1.61334
$n_C$	656.3	1.61503
$n_{C'}$	643.8	1.61550
$n_{632.8}$	632.8	1.61595
$n_D$	589.3	1.61791
$n_d$	587.6	1.61800
$n_e$	546.1	1.62033
$n_F$	486.1	1.62478
$n_{F'}$	480.0	1.62534
$n_g$	435.8	1.63007
$n_h$	404.7	1.63445
$n_i$	365.0	1.64190
$n_{334.1}$	334.1	1.64991
$n_{312.6}$	312.6	1.65724
$n_{296.7}$	296.7	1.66390
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Internal Transmittance $\tau_i$		
$\lambda$ [nm]	$\tau_i$ (10mm)	$\tau_i$ (25mm)
2500	0.609	0.290
2325	0.764	0.510
1970	0.915	0.800
1530	0.982	0.956
1060	0.998	0.994
700	0.998	0.994
660	0.997	0.993
620	0.997	0.992
580	0.998	0.994
546	0.998	0.995
500	0.997	0.992
460	0.994	0.986
436	0.993	0.982
420	0.992	0.979
405	0.988	0.970
400	0.985	0.964
390	0.976	0.940
380	0.959	0.900
370	0.928	0.830
365	0.905	0.780
350	0.776	0.530
334	0.525	0.200
320	0.230	0.030
310	0.061	
300		
290		
280		
270		
260		
250		

Relative Partial Dispersion	
$P_{s,t}$	0.2797
$P_{C,s}$	0.5380
$P_{d,C}$	0.3044
$P_{e,d}$	0.2385
$P_{g,F}$	0.5424
$P_{i,h}$	0.7642
$P'_{s,t}$	0.2774
$P'_{C',s}$	0.5816
$P'_{d,C'}$	0.2538
$P'_{e,d}$	0.2365
$P'_{g,F'}$	0.4815
$P'_{i,h}$	0.7578

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

$\Delta P_{C,t}$	-0.0279
$\Delta P_{C,s}$	-0.0127
$\Delta P_{F,e}$	0.0020
$\Delta P_{g,F}$	0.0052
$\Delta P_{i,g}$	0.0208

Constants of Dispersion Formula	
$B_1$	1.38121836
$B_2$	0.196745645
$B_3$	0.886089205
$C_1$	0.00706416337
$C_2$	0.0233251345
$C_3$	97.4847345

Constants of Dispersion $dn/dT$	
$D_0$	$-9.28 \cdot 10^{-6}$
$D_1$	$7.19 \cdot 10^{-9}$
$D_2$	$1.45 \cdot 10^{-12}$
$E_0$	$4.06 \cdot 10^{-7}$
$E_1$	$3.17 \cdot 10^{-10}$
$\lambda_{TK} [\mu m]$	0.19

Color Code	
$\lambda_{80}/\lambda_5$	36/31
(* = $\lambda_{70}/\lambda_5$ )	

Remarks	
step 0.5 available	

Other Properties	
$\alpha_{-30/+70^\circ C} [10^{-6}/K]$	9.6
$\alpha_{+20/+300^\circ C} [10^{-6}/K]$	10.8
$T_g [^\circ C]$	606
$T_{10}^{13.0} [^\circ C]$	609
$T_{10}^{7.6} [^\circ C]$	699
$c_p [J/(g \cdot K)]$	0.590
$\lambda [W/(m \cdot K)]$	0.640
$AT [^\circ C]$	647
$\rho [g/cm^3]$	3.57
$E [10^3 N/mm^2]$	76
$\mu$	0.288
$K [10^{-6} mm^2/N]$	1.16
$HK_{0.1/20}$	415
$HG$	6
<b>Abrasion Aa</b>	284
<b>CR</b>	1
<b>FR</b>	1
<b>SR</b>	53.3
<b>AR</b>	2.3
<b>PR</b>	4.3
<b>SR-J</b>	5
<b>WR-J</b>	1

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	-2.1	-1.6	-4.7	-4.3	-3.8
+20/ +40	-2.9	-2.4	-1.8	-4.3	-3.8	-3.3
+60/ +80	-2.9	-2.3	-1.8	-4.0	-3.5	-2.9