

## 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	

### Constants of Dispersion Formula

$B_1$	1.381218360
$B_2$	0.196745645
$B_3$	0.886089205
$C_1$	0.007064163
$C_2$	0.0233251345
$C_3$	97.48473450

### Constants of Formula for $dn/dT$

$D_0$	-9.28E-06
$D_1$	7.19E-09
$D_2$	1.45E-12
$E_0$	4.06E-07
$E_1$	3.17E-10
$\lambda_{TK}$ [ $\mu\text{m}$ ]	0.190

### 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	-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

### Internal Transmittance $\tau_i$

$\lambda$ [nm]	$\tau_i$ [10mm]	$\tau_i$ [25mm]
2500	0.610	0.290
2325	0.760	0.510
1970	0.920	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	0.930	0.830
365	0.910	0.780
350	0.780	0.530
334	0.530	0.200
320	0.230	0.030
310	0.060	0.000
300	0.000	
290		
280		
270		
260		
250		

### Color Code

$\lambda_{80} / \lambda_5$  36/31

### Remarks

step 0.5 available

### Relative Partial Dispersion P

$P_{s,t}$	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

### Relative Partial Dispersion P'

$P'_{s,t}$	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 Rel. Partial Disp.

#### $\Delta P$ 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

### Chemical Properties

CR	1
FR	1
SR	53.3
AR	2.3
PR	4.3
SR-J	5
WR-J	1

### Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]	9.6
$\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ]	10.8
$T_g$ [°C]	606
$T_{10}^{13}$ [°C]	609
$T_{10}^{7.6}$ [°C]	699
$c_p$ [J/(g·K)]	0.590
$\lambda$ [W/(m·K)]	0.640
AT [°C]	647
$\rho$ [g/cm <sup>3</sup> ]	3.57
E [ $10^3$ N/mm <sup>2</sup> ]	76
$\mu$	0.288
K [ $10^{-6}$ mm <sup>2</sup> /N]	1.16
HK <sub>0.1/20</sub>	415
HG	6
Abrasion Aa	284