

N-PSK3 552635.291

$n_d = 1.55232$
 $n_e = 1.55440$

$v_d = 63.46$
 $v_e = 63.23$

$n_F - n_C = 0.008704$
 $n_{F'} - n_{C'} = 0.008767$

Refractive Indices

	λ [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	

Constants of Dispersion Formula

B_1	0.887272110
B_2	0.489592425
B_3	1.048652960
C_1	0.004698241
C_2	0.0161818463
C_3	104.37497500

Constants of Formula for dn/dT

D_0	2.03E-06
D_1	1.19E-08
D_2	2.46E-11
E_0	3.14E-07
E_1	2.45E-10
λ_{TK} [μm]	0.235

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	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

Internal Transmittance τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0.650	0.340
2325	0.810	0.590
1970	0.950	0.880
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	0.910	0.800
320	0.770	0.520
310	0.580	0.260
300	0.320	0.060
290	0.120	
280	0.030	
270		
260		
250		

Color Code

λ_{80} / λ_5 33/28

Remarks

Relative Partial Dispersion P

$P_{s,t}$	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

Relative Partial Dispersion P'

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

ΔP 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

Chemical Properties

CR	3
FR	0
SR	2.2
AR	2
PR	2

Other Properties

$\alpha_{-30/+70^\circ\text{C}}$ [$10^{-6}/K$]	6.2
$\alpha_{+20/+300^\circ\text{C}}$ [$10^{-6}/K$]	7.3
T_g [°C]	599
T_{10}^{13} [°C]	597
$T_{10}^{7.6}$ [°C]	736
c_p [J/(g·K)]	0.682
λ [W/(m·K)]	0.990
ρ [g/cm ³]	2.91
E [10^3 N/mm ²]	84
μ	0.226
K [10^{-6} mm ² /N]	2.48
$HK_{0.1/20}$	630
HG	2