Datenblatt

SCHOTT

N-LASF55
954306.486

n_d = 1,95380	ν_d = 30,56	$n_F - n_C$ = 0,031211
n_e = 1,96118	ν_e = 30,33	$n_{F'} - n_{C'}$ = 0,031688

Brechzahlen

	λ [nm]	
$n_{2325.4}$	2325.4	1,89507
$n_{1970.1}$	1970.1	1,90226
$n_{1529.6}$	1529.6	1,91065
$n_{1060.0}$	1060.0	1,92162
n_t	1014.0	1,92312
n_s	852.1	1,92991
n_r	706.5	1,93976
n_C	656.3	1,94473
$n_{C'}$	643.8	1,94614
$n_{632.8}$	632.8	1,94748
n_D	589.3	1,95353
n_d	587.6	1,95380
n_e	546.1	1,96118
n_F	486.1	1,97594
$n_{F'}$	480.0	1,97783
n_g	435.8	1,99454
n_h	404.7	2,01096
n_i	365.0	
$n_{334.1}$	334.1	
$n_{312.6}$	312.6	
$n_{296.7}$	296.7	
$n_{280.4}$	280.4	
$n_{248.3}$	248.3	

Konstanten der Dispersionsform

B_1	2,30861228
B_2	0,35
B_3	1,92
C_1	0,01
C_2	0,06
C_3	133,20

Konstanten der Formel für dn/dT

D_0	
D_1	
D_2	
E_0	
E_1	
λ_{TK} [µm]	

Reintransmissionsgrad τ_i

λ [nm]	τ_i [10mm]	τ_i [25mm]
2500	0,710	0,420
2325	0,850	0,660
1970	0,967	0,920
1530	0,995	0,987
1060	0,999	0,997
700	0,995	0,988
660	0,993	0,983
620	0,991	0,977
580	0,987	0,969
546	0,981	0,954
500	0,959	0,900
460	0,920	0,810
436	0,870	0,710
420	0,810	0,590
405	0,700	0,410
400	0,650	0,340
390	0,500	0,180
380	0,310	0,050
370	0,100	0,000
365	0,030	0,000
350	0,000	
334		
320		
310		
300		
290		
280		
270		
260		
250		

Farbcode

λ80 / λ5	44/37*

Bemerkungen

Relative Teildispersionen

$P_{s,t}$	0,2175
$P_{C,s}$	0,4748
$P_{d,C}$	0,2907
$P_{e,d}$	0,2364
$P_{g,F}$	0,5961
$P_{i,h}$	
$P'_{s,t}$	0,2142
$P'_{C',s}$	0,5123
$P'_{d,C'}$	0,2416
$P'_{e,d}$	0,2329
$P'_{g,F'}$	0,5274
$P'_{i,h}$	

Abweichung relativer Teildispersionen ΔP von der "Normalgeraden"

$\Delta P_{C,t}$	0,0023
$\Delta P_{C,s}$	0,0007
$\Delta P_{F,e}$	0,0006
$\Delta P_{g,F}$	0,0037
$\Delta Pi_{,g}$	

Sonstige Eigenschaften

$\alpha_{-30/+70°C}$ [10^{-6}/K]	6,6
$\alpha_{+20/+300°C}$ [10^{-6}/K]	7,7
T_g [°C]	718
$T_{10^{13}}$ [°C]	722
$T_{10^{7.6}}$ [°C]	796
c_p [J/(g•K)]	0,500
λ [W/(m•K)]	0,900
ρ [g/cm^3]	4,86
E [10^3 N/mm^2]	126
µ	0,300
K [10^{-6} mm^2/N]	1,16
$HK_{0.1/20}$	710
HG	2
CR	1
FR	0
SR	2,3
AR	1
PR	1
SR-J	1
WR-J	1

Temperaturkoeffizienten der Lichtbrechung

	$\Delta n_{rel}/\Delta T$ [10^{-6}/K]			$\Delta n_{abs}/\Delta T$ [10^{-6}/K]		
[°C]	**1060.0**	**e**	**g**	**1060.0**	**e**	**g**
-40/-20						
+20/+40						
+60/+80						