

**N-SK10**  
**623570.364**

|                 |               |                              |
|-----------------|---------------|------------------------------|
| $n_d = 1,62278$ | $v_d = 56,98$ | $n_F - n_C = 0,010929$       |
| $n_e = 1,62539$ | $v_e = 56,70$ | $n_{F'} - n_{C'} = 0,011029$ |

| Brechzahlen  |                |         |
|--------------|----------------|---------|
|              | $\lambda$ [nm] |         |
| $n_{2325,4}$ | 2325,4         | 1,59310 |
| $n_{1970,1}$ | 1970,1         | 1,59837 |
| $n_{1529,6}$ | 1529,6         | 1,60400 |
| $n_{1060,0}$ | 1060,0         | 1,61000 |
| $n_t$        | 1014,0         | 1,61071 |
| $n_s$        | 852,1          | 1,61367 |
| $n_r$        | 706,5          | 1,61759 |
| $n_C$        | 656,3          | 1,61947 |
| $n_{C'}$     | 643,8          | 1,62000 |
| $n_{632,8}$  | 632,8          | 1,62049 |
| $n_D$        | 589,3          | 1,62268 |
| $n_d$        | 587,6          | 1,62278 |
| $n_e$        | 546,1          | 1,62539 |
| $n_F$        | 486,1          | 1,63040 |
| $n_{F'}$     | 480,0          | 1,63102 |
| $n_g$        | 435,8          | 1,63638 |
| $n_h$        | 404,7          | 1,64137 |
| $n_i$        | 365,0          | 1,64989 |
| $n_{334,1}$  | 334,1          |         |
| $n_{312,6}$  | 312,6          |         |
| $n_{296,7}$  | 296,7          |         |
| $n_{280,4}$  | 280,4          |         |
| $n_{248,3}$  | 248,3          |         |

| Reintransmissionsgrad $\tau_i$ |                 |                 |
|--------------------------------|-----------------|-----------------|
| $\lambda$ [nm]                 | $\tau_i$ (10mm) | $\tau_i$ (25mm) |
| 2500                           | 0,733           | 0,460           |
| 2325                           | 0,852           | 0,670           |
| 1970                           | 0,967           | 0,920           |
| 1530                           | 0,992           | 0,980           |
| 1060                           | 0,998           | 0,994           |
| 700                            | 0,998           | 0,995           |
| 660                            | 0,997           | 0,993           |
| 620                            | 0,998           | 0,994           |
| 580                            | 0,998           | 0,996           |
| 546                            | 0,998           | 0,996           |
| 500                            | 0,998           | 0,995           |
| 460                            | 0,996           | 0,990           |
| 436                            | 0,995           | 0,987           |
| 420                            | 0,994           | 0,985           |
| 405                            | 0,990           | 0,975           |
| 400                            | 0,988           | 0,970           |
| 390                            | 0,980           | 0,950           |
| 380                            | 0,963           | 0,910           |
| 370                            | 0,933           | 0,840           |
| 365                            | 0,910           | 0,790           |
| 350                            | 0,770           | 0,520           |
| 334                            | 0,414           | 0,110           |
| 320                            | 0,068           |                 |
| 310                            |                 |                 |
| 300                            |                 |                 |
| 290                            |                 |                 |
| 280                            |                 |                 |
| 270                            |                 |                 |
| 260                            |                 |                 |
| 250                            |                 |                 |

| Relative Teildispersionen |        |
|---------------------------|--------|
| $P_{s,t}$                 | 0,2714 |
| $P_{C,s}$                 | 0,5302 |
| $P_{d,C}$                 | 0,3029 |
| $P_{e,d}$                 | 0,2384 |
| $P_{g,F}$                 | 0,5474 |
| $P_{i,h}$                 | 0,7803 |
| $P'_{s,t}$                | 0,2689 |
| $P'_{C',s}$               | 0,5731 |
| $P'_{d,C'}$               | 0,2525 |
| $P'_{e,d}$                | 0,2362 |
| $P'_{g,F'}$               | 0,4857 |
| $P'_{i,h}$                | 0,7732 |

| Abweichungen rel. Teil-<br>dispersionen $\Delta P$ von der<br>"Normalgeraden" |         |
|---|---------|
| $\Delta P_{C,t}$  | -0,0137 |
| $\Delta P_{C,s}$  | -0,0055 |
| $\Delta P_{F,e}$  | 0,0003  |
| $\Delta P_{g,F}$  | -0,0005 |
| $\Delta P_{i,g}$  | -0,0103 |

| Konstanten der<br>Dispersionsformel |               |
|-------------------------------------|---------------|
| $B_1$                               | 1,34972093    |
| $B_2$                               | 0,238587973   |
| $B_3$                               | 0,9667336     |
| $C_1$                               | 0,00736272269 |
| $C_2$                               | 0,0253765327  |
| $C_3$                               | 103,502909    |

| Sonstige Eigenschaften                  |       |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$  | 6,8   |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 7,8   |
| $T_g [^\circ C]$                        | 633   |
| $T_{10}^{13,0} [^\circ C]$              | 635   |
| $T_{10}^{7,6} [^\circ C]$               | 758   |
| $c_p [J/(g \cdot K)]$                   | 0,540 |
| $\lambda [W/(m \cdot K)]$               | 0,770 |
| $\rho [g/cm^3]$                         | 3,64  |
| $E [10^3 N/mm^2]$                       | 81    |
| $\mu$                                   | 0,266 |
| $K [10^{-6} mm^2/N]$                    | 2,25  |
| $HK_{0,1/20}$                           | 550   |
| <b>HG</b>                               | 3     |
| <b>CR</b>                               | 3     |
| <b>FR</b>                               | 3     |
| <b>SR</b>                               | 52,2  |
| <b>AR</b>                               | 2     |
| <b>PR</b>                               | 2,2   |

| Konstanten der Formel<br>für $dn/dT$ |                        |
|--------------------------------------|------------------------|
| $D_0$                                | $5,05 \cdot 10^{-7}$   |
| $D_1$                                | $1,16 \cdot 10^{-8}$   |
| $D_2$                                | $-1,53 \cdot 10^{-11}$ |
| $E_0$                                | $4,90 \cdot 10^{-7}$   |
| $E_1$                                | $5,10 \cdot 10^{-10}$  |
| $\lambda_{TK} [\mu m]$               | 0,183                  |

| Farbcode                        |       |
|---------------------------------|-------|
| $\lambda_{80}/\lambda_5$        | 36/32 |
| (* = $\lambda_{70}/\lambda_5$ ) |       |

| Bemerkungen |  |
|-------------|--|
| Anfrageglas |  |

| Temperaturkoeffizienten der Lichtbrechung |                                       |     |     |                                       |     |     |
|---|---------------------------------------|-----|-----|---------------------------------------|-----|-----|
| [ $^\circ C$ ]                            | $\Delta n_{rel}/\Delta T [10^{-6}/K]$ |     |     | $\Delta n_{abs}/\Delta T [10^{-6}/K]$ |     |     |
|   | 1060,0                                | e   | g   | 1060,0                                | e   | g   |
| -40/ -20                                  | 2,0                                   | 2,7 | 3,3 | -0,2                                  | 0,4 | 1,0 |
| +20/ +40                                  | 2,0                                   | 2,7 | 3,5 | 0,6                                   | 1,3 | 2,0 |
| +60/ +80                                  | 2,1                                   | 2,9 | 3,7 | 1,0                                   | 1,8 | 2,6 |