

**N-SF5**  
**673323.286**

|                 |               |                              |
|-----------------|---------------|------------------------------|
| $n_d = 1,67271$ | $v_d = 32,25$ | $n_F - n_C = 0,020858$       |
| $n_e = 1,67763$ | $v_e = 32,00$ | $n_{F'} - n_{C'} = 0,021177$ |

| Brechzahlen  |                |         |
|--------------|----------------|---------|
|              | $\lambda$ [nm] |         |
| $n_{2325,4}$ | 2325,4         | 1,62935 |
| $n_{1970,1}$ | 1970,1         | 1,63554 |
| $n_{1529,6}$ | 1529,6         | 1,64249 |
| $n_{1060,0}$ | 1060,0         | 1,65080 |
| $n_t$        | 1014,0         | 1,65188 |
| $n_s$        | 852,1          | 1,65661 |
| $n_r$        | 706,5          | 1,66330 |
| $n_C$        | 656,3          | 1,66664 |
| $n_{C'}$     | 643,8          | 1,66759 |
| $n_{632,8}$  | 632,8          | 1,66848 |
| $n_D$        | 589,3          | 1,67253 |
| $n_d$        | 587,6          | 1,67271 |
| $n_e$        | 546,1          | 1,67763 |
| $n_F$        | 486,1          | 1,68750 |
| $n_{F'}$     | 480,0          | 1,68876 |
| $n_g$        | 435,8          | 1,69998 |
| $n_h$        | 404,7          | 1,71106 |
| $n_i$        | 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          |         |

| Reintransmissionsgrad $\tau_i$ |                 |                 |
|--------------------------------|-----------------|-----------------|
| $\lambda$ [nm]                 | $\tau_i$ (10mm) | $\tau_i$ (25mm) |
| 2500                           | 0,758           | 0,500           |
| 2325                           | 0,831           | 0,630           |
| 1970                           | 0,950           | 0,880           |
| 1530                           | 0,990           | 0,975           |
| 1060                           | 0,998           | 0,994           |
| 700                            | 0,996           | 0,989           |
| 660                            | 0,995           | 0,987           |
| 620                            | 0,995           | 0,988           |
| 580                            | 0,996           | 0,991           |
| 546                            | 0,995           | 0,988           |
| 500                            | 0,990           | 0,976           |
| 460                            | 0,982           | 0,956           |
| 436                            | 0,973           | 0,935           |
| 420                            | 0,963           | 0,910           |
| 405                            | 0,928           | 0,830           |
| 400                            | 0,905           | 0,780           |
| 390                            | 0,826           | 0,620           |
| 380                            | 0,642           | 0,330           |
| 370                            | 0,276           | 0,040           |
| 365                            | 0,116           |                 |
| 350                            |                 |                 |
| 334                            |                 |                 |
| 320                            |                 |                 |
| 310                            |                 |                 |
| 300                            |                 |                 |
| 290                            |                 |                 |
| 280                            |                 |                 |
| 270                            |                 |                 |
| 260                            |                 |                 |
| 250                            |                 |                 |

| Relative Teildispersionen |        |
|---------------------------|--------|
| $P_{s,t}$                 | 0,2270 |
| $P_{C,s}$                 | 0,4807 |
| $P_{d,C}$                 | 0,2910 |
| $P_{e,d}$                 | 0,2362 |
| $P_{g,F}$                 | 0,5984 |
| $P_{i,h}$                 |        |
| $P'_{s,t}$                | 0,2236 |
| $P'_{C',s}$               | 0,5184 |
| $P'_{d,C'}$               | 0,2418 |
| $P'_{e,d}$                | 0,2327 |
| $P'_{g,F'}$               | 0,5295 |
| $P'_{i,h}$                |        |

| Abweichungen rel. Teil-<br>dispersionen $\Delta P$ von der<br>"Normalgeraden" |        |
|---|--------|
| $\Delta P_{C,t}$  | 0,0097 |
| $\Delta P_{C,s}$  | 0,0027 |
| $\Delta P_{F,e}$  | 0,0014 |
| $\Delta P_{g,F}$  | 0,0088 |
| $\Delta P_{i,g}$  |        |

| Konstanten der<br>Dispersionsformel |              |
|-------------------------------------|--------------|
| $B_1$                               | 1,52481889   |
| $B_2$                               | 0,187085527  |
| $B_3$                               | 1,42729015   |
| $C_1$                               | 0,011254756  |
| $C_2$                               | 0,0588995392 |
| $C_3$                               | 129,141675   |

| Sonstige Eigenschaften                  |       |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$  | 7,9   |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 9,2   |
| $T_g [^\circ C]$                        | 578   |
| $T_{10}^{13,0} [^\circ C]$              | 576   |
| $T_{10}^{7,6} [^\circ C]$               | 693   |
| $c_p [J/(g \cdot K)]$                   | 0,770 |
| $\lambda [W/(m \cdot K)]$               | 1,000 |
| $\rho [g/cm^3]$                         | 2,86  |
| $E [10^3 N/mm^2]$                       | 87    |
| $\mu$                                   | 0,237 |
| $K [10^{-6} mm^2/N]$                    | 2,99  |
| $HK_{0,1/20}$                           | 620   |
| $HG$                                    | 3     |
| $CR$                                    | 1     |
| $FR$                                    | 0     |
| $SR$                                    | 1     |
| $AR$                                    | 1     |
| $PR$                                    | 1     |

| Konstanten der Formel<br>für $dn/dT$ |                        |
|--------------------------------------|------------------------|
| $D_0$                                | $-2,51 \cdot 10^{-7}$  |
| $D_1$                                | $1,07 \cdot 10^{-8}$   |
| $D_2$                                | $-2,40 \cdot 10^{-11}$ |
| $E_0$                                | $7,85 \cdot 10^{-7}$   |
| $E_1$                                | $1,15 \cdot 10^{-9}$   |
| $\lambda_{TK} [\mu m]$               | 0,278                  |

| Farbcode                       |       |
|--------------------------------|-------|
| $\lambda_{80}/\lambda_5$       | 40/36 |
| (*= $\lambda_{70}/\lambda_5$ ) |       |

| Bemerkungen                     |  |
|---------------------------------|--|
| in Brechzahlstufe 0,5 verfügbar |  |

| Temperaturkoeffizienten der Lichtbrechung |                                       |     |     |                                       |     |     |
|---|---------------------------------------|-----|-----|---------------------------------------|-----|-----|
| [°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                                  | 1,8                                   | 3,1 | 4,8 | -0,5                                  | 0,8 | 2,5 |
| +20/ +40                                  | 1,8                                   | 3,4 | 5,5 | 0,4                                   | 2,0 | 4,0 |
| +60/ +80                                  | 1,9                                   | 3,7 | 6,0 | 0,8                                   | 2,5 | 4,8 |