

## N-SF1 717296.303

|                 |               |                          |
|-----------------|---------------|--------------------------|
| $n_d = 1,71736$ | $v_d = 29,62$ | $n_F - n_C = 0,024219$   |
| $n_e = 1,72308$ | $v_e = 29,39$ | $n_F' - n_C' = 0,024606$ |

| Brechzahlen  |                |         |
|--------------|----------------|---------|
|              | $\lambda$ [nm] |         |
| $n_{2325,4}$ | 2325,4         | 1,67021 |
| $n_{1970,1}$ | 1970,1         | 1,67641 |
| $n_{1529,6}$ | 1529,6         | 1,68350 |
| $n_{1060,0}$ | 1060,0         | 1,69240 |
| $n_t$        | 1014,0         | 1,69358 |
| $n_s$        | 852,1          | 1,69889 |
| $n_r$        | 706,5          | 1,70651 |
| $n_C$        | 656,3          | 1,71035 |
| $n_{C'}$     | 643,8          | 1,71144 |
| $n_{632,8}$  | 632,8          | 1,71247 |
| $n_D$        | 589,3          | 1,71715 |
| $n_d$        | 587,6          | 1,71736 |
| $n_e$        | 546,1          | 1,72308 |
| $n_F$        | 486,1          | 1,73457 |
| $n_{F'}$     | 480,0          | 1,73605 |
| $n_g$        | 435,8          | 1,74919 |
| $n_h$        | 404,7          | 1,76224 |
| $n_i$        | 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 Dispersionsformel |              |
|----------------------------------|--------------|
| $B_1$                            | 1,60865158   |
| $B_2$                            | 0,237725916  |
| $B_3$                            | 1,51530653   |
| $C_1$                            | 0,0119654879 |
| $C_2$                            | 0,0590589722 |
| $C_3$                            | 135,521676   |

| Konstanten der Formel für $dn/dT$ |                        |
|-----------------------------------|------------------------|
| $D_0$                             | $-3,72 \cdot 10^{-6}$  |
| $D_1$                             | $8,05 \cdot 10^{-9}$   |
| $D_2$                             | $-1,71 \cdot 10^{-11}$ |
| $E_0$                             | $8,98 \cdot 10^{-7}$   |
| $E_1$                             | $1,34 \cdot 10^{-9}$   |
| $\lambda_{TK}$ [ $\mu$ m]         | 0,276                  |

| 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                                  | 0,1                                   | 1,7 | 3,6 | -2,2                                  | -0,7 | 1,2 |
| +20/ +40                                  | 0,0                                   | 1,8 | 4,2 | -1,5                                  | 0,3  | 2,7 |
| +60/ +80                                  | 0,0                                   | 2,1 | 4,8 | -1,1                                  | 0,9  | 3,5 |

| Reintransmissionsgrad $\tau_i$ |                 |                 |
|--------------------------------|-----------------|-----------------|
| $\lambda$ [nm]                 | $\tau_i$ (10mm) | $\tau_i$ (25mm) |
| 2500                           | 0,733           | 0,460           |
| 2325                           | 0,804           | 0,580           |
| 1970                           | 0,937           | 0,850           |
| 1530                           | 0,989           | 0,973           |
| 1060                           | 0,998           | 0,995           |
| 700                            | 0,996           | 0,990           |
| 660                            | 0,994           | 0,986           |
| 620                            | 0,995           | 0,987           |
| 580                            | 0,996           | 0,990           |
| 546                            | 0,994           | 0,986           |
| 500                            | 0,987           | 0,968           |
| 460                            | 0,976           | 0,940           |
| 436                            | 0,963           | 0,910           |
| 420                            | 0,946           | 0,870           |
| 405                            | 0,896           | 0,760           |
| 400                            | 0,867           | 0,700           |
| 390                            | 0,770           | 0,520           |
| 380                            | 0,574           | 0,250           |
| 370                            | 0,252           | 0,030           |
| 365                            | 0,096           |                 |
| 350                            |                 |                 |
| 334                            |                 |                 |
| 320                            |                 |                 |
| 310                            |                 |                 |
| 300                            |                 |                 |
| 290                            |                 |                 |
| 280                            |                 |                 |
| 270                            |                 |                 |
| 260                            |                 |                 |
| 250                            |                 |                 |

| Farbcode                        |       |
|---------------------------------|-------|
| $\lambda_{80}/\lambda_5$        | 41/36 |
| (* = $\lambda_{70}/\lambda_5$ ) |       |

| Bemerkungen |
|-------------|
|             |

| Relative Teildispersionen |        |
|---------------------------|--------|
| $P_{s,t}$                 | 0,2190 |
| $P_{C,s}$                 | 0,4733 |
| $P_{d,C}$                 | 0,2895 |
| $P_{e,d}$                 | 0,2360 |
| $P_{g,F}$                 | 0,6037 |
| $P_{i,h}$                 |        |
| $P'_{s,t}$                | 0,2156 |
| $P'_{C,s}$                | 0,5103 |
| $P'_{d,C'}$               | 0,2405 |
| $P'_{e,d}$                | 0,2323 |
| $P'_{g,F'}$               | 0,5340 |
| $P'_{i,h}$                |        |

| Abweichungen rel. Teildispersionen $\Delta P$ von der "Normalgeraden" |        |
|---|--------|
| $\Delta P_{C,t}$  | 0,0068 |
| $\Delta P_{C,s}$  | 0,0013 |
| $\Delta P_{F,e}$  | 0,0016 |
| $\Delta P_{g,F}$  | 0,0097 |
| $\Delta P_{i,g}$  |        |

| Sonstige Eigenschaften                  |       |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$  | 9,1   |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 10,5  |
| $T_g [^\circ C]$                        | 553   |
| $T_{10}^{13,0} [^\circ C]$              | 554   |
| $T_{10}^{7,6} [^\circ C]$               | 660   |
| $c_p [J/(g \cdot K)]$                   | 0,750 |
| $\lambda [W/(m \cdot K)]$               | 1,000 |
| $\rho [g/cm^3]$                         | 3,03  |
| $E [10^3 N/mm^2]$                       | 90    |
| $\mu$                                   | 0,250 |
| $K [10^{-6} mm^2/N]$                    | 2,72  |
| $HK_{0,1/20}$                           | 540   |
| HG                                      | 5     |
| CR                                      | 1     |
| FR                                      | 0     |
| SR                                      | 1     |
| AR                                      | 1     |
| PR                                      | 1     |