

## N-LASF9HT 850322.441

|                 |               |                              |
|-----------------|---------------|------------------------------|
| $n_d = 1,85025$ | $v_d = 32,17$ | $n_F - n_C = 0,026430$       |
| $n_e = 1,85650$ | $v_e = 31,93$ | $n_{F'} - n_{C'} = 0,026827$ |

| Brechzahlen  |                |         |
|--------------|----------------|---------|
|              | $\lambda$ [nm] |         |
| $n_{2325,4}$ | 2325,4         | 1,80058 |
| $n_{1970,1}$ | 1970,1         | 1,80659 |
| $n_{1529,6}$ | 1529,6         | 1,81364 |
| $n_{1060,0}$ | 1060,0         | 1,82293 |
| $n_t$        | 1014,0         | 1,82420 |
| $n_s$        | 852,1          | 1,82997 |
| $n_r$        | 706,5          | 1,83834 |
| $n_C$        | 656,3          | 1,84255 |
| $n_{C'}$     | 643,8          | 1,84376 |
| $n_{632,8}$  | 632,8          | 1,84489 |
| $n_D$        | 589,3          | 1,85002 |
| $n_d$        | 587,6          | 1,85025 |
| $n_e$        | 546,1          | 1,85650 |
| $n_F$        | 486,1          | 1,86898 |
| $n_{F'}$     | 480,0          | 1,87058 |
| $n_g$        | 435,8          | 1,88467 |
| $n_h$        | 404,7          | 1,89845 |
| $n_i$        | 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                           | 0,814           | 0,598           |
| 2325                           | 0,873           | 0,712           |
| 1970                           | 0,967           | 0,919           |
| 1530                           | 0,994           | 0,986           |
| 1060                           | 0,998           | 0,994           |
| 700                            | 0,994           | 0,986           |
| 660                            | 0,992           | 0,981           |
| 620                            | 0,992           | 0,979           |
| 580                            | 0,991           | 0,978           |
| 546                            | 0,989           | 0,972           |
| 500                            | 0,978           | 0,945           |
| 460                            | 0,958           | 0,898           |
| 436                            | 0,939           | 0,855           |
| 420                            | 0,915           | 0,801           |
| 405                            | 0,869           | 0,703           |
| 400                            | 0,843           | 0,653           |
| 390                            | 0,766           | 0,513           |
| 380                            | 0,629           | 0,314           |
| 370                            | 0,390           | 0,095           |
| 365                            | 0,246           | 0,030           |
| 350                            | 0,005           |                 |
| 334                            |                 |                 |
| 320                            |                 |                 |
| 310                            |                 |                 |
| 300                            |                 |                 |
| 290                            |                 |                 |
| 280                            |                 |                 |
| 270                            |                 |                 |
| 260                            |                 |                 |
| 250                            |                 |                 |

| Relative Teildispersionen |        |
|---------------------------|--------|
| $P_{s,t}$                 | 0,2181 |
| $P_{C,s}$                 | 0,4762 |
| $P_{d,C}$                 | 0,2912 |
| $P_{e,d}$                 | 0,2366 |
| $P_{g,F}$                 | 0,5934 |
| $P_{i,h}$                 |        |
| $P'_{s,t}$                | 0,2149 |
| $P'_{C',s}$               | 0,5140 |
| $P'_{d,C'}$               | 0,2420 |
| $P'_{e,d}$                | 0,2330 |
| $P'_{g,F'}$               | 0,5250 |
| $P'_{i,h}$                |        |

### Abweichungen rel. Teil- dispersionen $\Delta P$ von der "Normalgeraden"

|                  |         |
|------------------|---------|
| $\Delta P_{C,t}$ | -0,0032 |
| $\Delta P_{C,s}$ | -0,0016 |
| $\Delta P_{F,e}$ | 0,0008  |
| $\Delta P_{g,F}$ | 0,0037  |
| $\Delta P_{i,g}$ |         |

| Konstanten der<br>Dispersionsformel |              |
|-------------------------------------|--------------|
| $B_1$                               | 2,00029547   |
| $B_2$                               | 0,298926886  |
| $B_3$                               | 1,80691843   |
| $C_1$                               | 0,0121426017 |
| $C_2$                               | 0,0538736236 |
| $C_3$                               | 156,530829   |

| Konstanten der Formel<br>für $dn/dT$ |                        |
|--------------------------------------|------------------------|
| $D_0$                                | $1,05 \cdot 10^{-6}$   |
| $D_1$                                | $1,02 \cdot 10^{-8}$   |
| $D_2$                                | $-2,38 \cdot 10^{-11}$ |
| $E_0$                                | $9,19 \cdot 10^{-7}$   |
| $E_1$                                | $1,18 \cdot 10^{-9}$   |
| $\lambda_{TK} [\mu m]$               | 0,257                  |

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

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

| Sonstige Eigenschaften                  |       |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$  | 7,4   |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 8,4   |
| $T_g [^\circ C]$                        | 683   |
| $T_{10}^{13,0} [^\circ C]$              | 700   |
| $T_{10}^{7,6} [^\circ C]$               | 817   |
| $c_p [J/(g \cdot K)]$                   | 0,530 |
| $\lambda [W/(m \cdot K)]$               | 0,790 |
| $\rho [g/cm^3]$                         | 4,41  |
| $E [10^3 N/mm^2]$                       | 109   |
| $\mu$                                   | 0,288 |
| $K [10^{-6} mm^2/N]$                    | 1,72  |
| $HK_{0,1/20}$                           | 515   |
| <b>HG</b>                               | 4     |
| <b>Abrasion Aa</b>                      | 120   |
| <b>CR</b>                               | 1     |
| <b>FR</b>                               | 0     |
| <b>SR</b>                               | 2     |
| <b>AR</b>                               | 1     |
| <b>PR</b>                               | 1     |

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