

## N-BAK1 573576.319

$n_d = 1,57250$

$v_d = 57,55$

$n_F - n_C = 0,009948$

$n_e = 1,57487$

$v_e = 57,27$

$n_F - n_C = 0,010039$

### Brechzahlen

|              | $\lambda$ [nm] |         |
|--------------|----------------|---------|
| $n_{2325,4}$ | 2325,4         | 1,54556 |
| $n_{1970,1}$ | 1970,1         | 1,55032 |
| $n_{1529,6}$ | 1529,6         | 1,55543 |
| $n_{1060,0}$ | 1060,0         | 1,56088 |
| $n_t$        | 1014,0         | 1,56152 |
| $n_s$        | 852,1          | 1,56421 |
| $n_r$        | 706,5          | 1,56778 |
| $n_C$        | 656,3          | 1,56949 |
| $n_{C'}$     | 643,8          | 1,56997 |
| $n_{632,8}$  | 632,8          | 1,57041 |
| $n_D$        | 589,3          | 1,57241 |
| $n_d$        | 587,6          | 1,57250 |
| $n_e$        | 546,1          | 1,57487 |
| $n_F$        | 486,1          | 1,57943 |
| $n_{F'}$     | 480,0          | 1,58000 |
| $n_g$        | 435,8          | 1,58488 |
| $n_h$        | 404,7          | 1,58941 |
| $n_i$        | 365,0          | 1,59716 |
| $n_{334,1}$  | 334,1          | 1,60554 |
| $n_{312,6}$  | 312,6          | 1,61326 |
| $n_{296,7}$  | 296,7          |         |
| $n_{280,4}$  | 280,4          |         |
| $n_{248,3}$  | 248,3          |         |

### Konstanten der Dispersionsformel

|       |               |
|-------|---------------|
| $B_1$ | 1,123656620   |
| $B_2$ | 0,309276848   |
| $B_3$ | 0,881511957   |
| $C_1$ | 0,00644742752 |
| $C_2$ | 0,0222284402  |
| $C_3$ | 107,2977510   |

### Konstanten der Formel für $dn/dT$

|                                  |           |
|----------------------------------|-----------|
| $D_0$                            | 1,86E-07  |
| $D_1$                            | 1,29E-08  |
| $D_2$                            | -1,87E-11 |
| $E_0$                            | 5,25E-07  |
| $E_1$                            | 5,46E-10  |
| $\lambda_{TK}$ [ $\mu\text{m}$ ] | 0,182     |

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

### Reintransmissionsgrad $\tau_i$

| $\lambda$ [nm] | $\tau_i$ [10mm] | $\tau_i$ [25mm] |
|----------------|-----------------|-----------------|
| 2500           | 0,810           | 0,580           |
| 2325           | 0,880           | 0,720           |
| 1970           | 0,960           | 0,900           |
| 1530           | 0,994           | 0,986           |
| 1060           | 0,998           | 0,996           |
| 700            | 0,999           | 0,997           |
| 660            | 0,998           | 0,995           |
| 620            | 0,998           | 0,995           |
| 580            | 0,998           | 0,995           |
| 546            | 0,998           | 0,995           |
| 500            | 0,997           | 0,992           |
| 460            | 0,996           | 0,990           |
| 436            | 0,996           | 0,989           |
| 420            | 0,996           | 0,990           |
| 405            | 0,996           | 0,990           |
| 400            | 0,996           | 0,990           |
| 390            | 0,995           | 0,988           |
| 380            | 0,993           | 0,983           |
| 370            | 0,991           | 0,977           |
| 365            | 0,987           | 0,969           |
| 350            | 0,971           | 0,930           |
| 334            | 0,920           | 0,820           |
| 320            | 0,800           | 0,570           |
| 310            | 0,610           | 0,290           |
| 300            | 0,350           | 0,070           |
| 290            | 0,100           |                 |
| 280            | 0,010           |                 |
| 270            |                 |                 |
| 260            |                 |                 |
| 250            |                 |                 |

### Farbcode

$\lambda_{80} / \lambda_5$  33/29

### Bemerkungen

### Relative Teildispersionen P

|           |        |
|-----------|--------|
| $P_{s,t}$ | 0,2712 |
| $P_{C,s}$ | 0,5301 |
| $P_{d,C}$ | 0,3029 |
| $P_{e,d}$ | 0,2384 |
| $P_{g,F}$ | 0,5472 |
| $P_{i,h}$ | 0,7788 |

### Relative Teildispersionen P'

|             |        |
|-------------|--------|
| $P'_{s,t}$  | 0,2687 |
| $P'_{C',s}$ | 0,5730 |
| $P'_{d,C'}$ | 0,2525 |
| $P'_{e,d}$  | 0,2362 |
| $P'_{g,F'}$ | 0,4855 |
| $P'_{i,h}$  | 0,7717 |

### Abweichung rel. Teildisp.

#### $\Delta P$ von der "Normalgeraden"

|                  |         |
|------------------|---------|
| $\Delta P_{C,t}$ | -0,0167 |
| $\Delta P_{C,s}$ | -0,0069 |
| $\Delta P_{F,e}$ | 0,0006  |
| $\Delta P_{g,F}$ | 0,0002  |
| $\Delta P_{i,g}$ | -0,0075 |

### Chemische Eigenschaften

|    |     |
|----|-----|
| CR | 2   |
| FR | 1   |
| SR | 3,3 |
| AR | 1,2 |
| PR | 2   |

### Sonstige Eigenschaften

|   |       |
|---|-------|
| $\alpha_{-30/+70^\circ\text{C}}$ [ $10^{-6}/K$ ]  | 7,6   |
| $\alpha_{+20/+300^\circ\text{C}}$ [ $10^{-6}/K$ ] | 8,6   |
| $T_g$ [°C]  | 592   |
| $T_{10}^{13}$ [°C]                                | 592   |
| $T_{10}^{7,6}$ [°C]                               | 746   |
| $c_p$ [J/(g·K)]                                   | 0,687 |
| $\lambda$ [W/(m·K)]                               | 0,795 |
| $\rho$ [g/cm <sup>3</sup> ]                       | 3,19  |
| $E$ [ $10^3$ N/mm <sup>2</sup> ]                  | 73    |
| $\mu$   | 0,252 |
| $K$ [ $10^{-6}$ mm <sup>2</sup> /N]               | 2,62  |
| HK <sub>0,1/20</sub>                              | 530   |
| HG  | 2     |