

**P-SF8**  
**689313.290**

|                 |               |                              |
|-----------------|---------------|------------------------------|
| $n_d = 1,68893$ | $v_d = 31,25$ | $n_F - n_C = 0,022046$       |
| $n_e = 1,69414$ | $v_e = 31,01$ | $n_{F'} - n_{C'} = 0,022386$ |

| Brechzahlen  |                |         |
|--------------|----------------|---------|
|              | $\lambda$ [nm] |         |
| $n_{2325,4}$ | 2325,4         | 1,64480 |
| $n_{1970,1}$ | 1970,1         | 1,65079 |
| $n_{1529,6}$ | 1529,6         | 1,65760 |
| $n_{1060,0}$ | 1060,0         | 1,66598 |
| $n_t$        | 1014,0         | 1,66708 |
| $n_s$        | 852,1          | 1,67200 |
| $n_r$        | 706,5          | 1,67901 |
| $n_C$        | 656,3          | 1,68252 |
| $n_{C'}$     | 643,8          | 1,68353 |
| $n_{632,8}$  | 632,8          | 1,68447 |
| $n_D$        | 589,3          | 1,68874 |
| $n_d$        | 587,6          | 1,68893 |
| $n_e$        | 546,1          | 1,69414 |
| $n_F$        | 486,1          | 1,70457 |
| $n_{F'}$     | 480,0          | 1,70591 |
| $n_g$        | 435,8          | 1,71778 |
| $n_h$        | 404,7          | 1,72950 |
| $n_i$        | 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                           | 0,727           | 0,450           |
| 2325                           | 0,799           | 0,570           |
| 1970                           | 0,937           | 0,850           |
| 1530                           | 0,991           | 0,977           |
| 1060                           | 0,999           | 0,997           |
| 700                            | 0,995           | 0,988           |
| 660                            | 0,994           | 0,984           |
| 620                            | 0,994           | 0,984           |
| 580                            | 0,995           | 0,987           |
| 546                            | 0,994           | 0,986           |
| 500                            | 0,989           | 0,972           |
| 460                            | 0,980           | 0,950           |
| 436                            | 0,971           | 0,930           |
| 420                            | 0,959           | 0,900           |
| 405                            | 0,937           | 0,850           |
| 400                            | 0,924           | 0,820           |
| 390                            | 0,872           | 0,710           |
| 380                            | 0,746           | 0,480           |
| 370                            | 0,468           | 0,150           |
| 365                            | 0,260           | 0,040           |
| 350                            | 0,001           |                 |
| 334                            |                 |                 |
| 320                            |                 |                 |
| 310                            |                 |                 |
| 300                            |                 |                 |
| 290                            |                 |                 |
| 280                            |                 |                 |
| 270                            |                 |                 |
| 260                            |                 |                 |
| 250                            |                 |                 |

| Relative Teildispersionen |        |
|---------------------------|--------|
| $P_{s,t}$                 | 0,2229 |
| $P_{C,s}$                 | 0,4776 |
| $P_{d,C}$                 | 0,2905 |
| $P_{e,d}$                 | 0,2362 |
| $P_{g,F}$                 | 0,5991 |
| $P_{i,h}$                 |        |
| $P'_{s,t}$                | 0,2195 |
| $P'_{C',s}$               | 0,5150 |
| $P'_{d,C'}$               | 0,2414 |
| $P'_{e,d}$                | 0,2326 |
| $P'_{g,F'}$               | 0,5301 |
| $P'_{i,h}$                |        |

### Abweichungen rel. Teildispersionen $\Delta P$ von der "Normalgeraden"

|                  |        |
|------------------|--------|
| $\Delta P_{C,t}$ | 0,0072 |
| $\Delta P_{C,s}$ | 0,0018 |
| $\Delta P_{F,e}$ | 0,0013 |
| $\Delta P_{g,F}$ | 0,0079 |
| $\Delta P_{i,g}$ |        |

| Konstanten der Dispersionsformel |              |
|----------------------------------|--------------|
| $B_1$                            | 1,55370411   |
| $B_2$                            | 0,206332561  |
| $B_3$                            | 1,39708831   |
| $C_1$                            | 0,011658267  |
| $C_2$                            | 0,0582087757 |
| $C_3$                            | 130,748028   |

| Konstanten der Formel für $dn/dT$ |                        |
|-----------------------------------|------------------------|
| $D_0$                             | $-4,27 \cdot 10^{-6}$  |
| $D_1$                             | $8,16 \cdot 10^{-9}$   |
| $D_2$                             | $-2,00 \cdot 10^{-11}$ |
| $E_0$                             | $9,02 \cdot 10^{-7}$   |
| $E_1$                             | $1,22 \cdot 10^{-9}$   |
| $\lambda_{TK} [\mu m]$            | 0,272                  |

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

| Bemerkungen               |  |
|---------------------------|--|
| zum Blankpressen geeignet |  |

| Sonstige Eigenschaften                  |       |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$  | 9,4   |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 11,1  |
| $T_g [^\circ C]$                        | 524   |
| $T_{10}^{13,0} [^\circ C]$              | 531   |
| $T_{10}^{7,6} [^\circ C]$               | 629   |
| $c_p [J/(g \cdot K)]$                   | 0,790 |
| $\lambda [W/(m \cdot K)]$               | 1,020 |
| $AT [^\circ C]$                         | 580   |
| $\rho [g/cm^3]$                         | 2,90  |
| $E [10^3 N/mm^2]$                       | 86    |
| $\mu$                                   | 0,253 |
| $K [10^{-6} mm^2/N]$                    | 2,73  |
| $HK_{0,1/20}$                           | 533   |
| $HG$                                    |       |
| <b>Abrasion Aa</b>                      | 200   |
| $CR$                                    | 1     |
| $FR$                                    | 0     |
| $SR$                                    | 1     |
| $AR$                                    | 1,2   |
| $PR$                                    | 1     |
| $SR-J$                                  | 1     |
| $WR-J$                                  | 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                                  | -0,2                                  | 1,3 | 3,2 | -2,4                                  | -1,0 | 0,8 |
| +20/ +40                                  | -0,3                                  | 1,5 | 3,7 | -1,7                                  | 0,0  | 2,2 |
| +60/ +80                                  | -0,3                                  | 1,7 | 4,1 | -1,4                                  | 0,5  | 3,0 |