

| | | | | | | | | |
|-----------|-------|----------------------------|-----------|---------|--------------|------------|--------------|-----------------|
| Brechzahl | n_d | 1,68893 1,688931 | Abbe Zahl | ν_d | 31,07 | Dispersion | n_F-n_C | 0,022170 |
| Brechzahl | n_e | 1,694167 | Abbe Zahl | ν_e | 30,83 | Dispersion | $n_F-n_{C'}$ | 0,022516 |

| Brechzahlen | | |
|------------------|----------|---------|
| $\lambda(\mu m)$ | | |
| n_{2325} | 2.32542 | 1,64463 |
| n_{1970} | 1.97009 | 1,65062 |
| n_{1530} | 1.52958 | 1,65745 |
| n_{1129} | 1.12864 | 1,66438 |
| n_t | 1.01398 | 1,66699 |
| n_s | 0.85211 | 1,67192 |
| $n_{A'}$ | 0.76819 | 1,67553 |
| n_r | 0.70652 | 1,67896 |
| n_C | 0.65627 | 1,68250 |
| $n_{C'}$ | 0.64385 | 1,68350 |
| n_{He-Ne} | 0.6328 | 1,68445 |
| n_D | 0.58929 | 1,68874 |
| n_d | 0.58756 | 1,68893 |
| n_e | 0.54607 | 1,69417 |
| n_F | 0.48613 | 1,70467 |
| $n_{F'}$ | 0.47999 | 1,70602 |
| n_{He-Cd} | 0.44157 | 1,71615 |
| n_g | 0.435835 | 1,71797 |
| n_h | 0.404656 | 1,72981 |
| n_i | 0.365015 | |

| Konstanten der Dispersionsformel | |
|----------------------------------|----------------|
| A ₁ | 1,54270810E+00 |
| A ₂ | 2,17113891E-01 |
| A ₃ | 1,81904459E+00 |
| B ₁ | 1,13925005E-02 |
| B ₂ | 5,79224572E-02 |
| B ₃ | 1,67697189E+02 |

| Chemische Eigenschaften | |
|---|-----|
| Wasserresistenz (Pulvergruppe) RW(P) | 1 |
| Säureresistenz (Pulvergruppe) RA(P) | 1 |
| Klimaresistenz (Oberflächengruppe) W(S) | 1 |
| Säureresistenz (Oberflächengruppe) SR | 1.0 |
| Phosphatresistenz PR | 1.0 |

| Mechanische Eigenschaften | |
|--|---------|
| Elastizitätsmodul E (10 ⁹ N/m ²) | 85,5 |
| Torsionsmodul G (10 ⁹ N/m ²) | 34,4 |
| Poissonzahl σ | 0,242 |
| Knoop Härte Hk [Klasse] | 560 6 |
| Schleifhärte Aa | 152 |
| Photoelastische Konstante β (nm/cm/10 ⁵ Pa) | 2,77 |

| Teildispersion | |
|----------------|----------|
| n_C-n_t | 0,015507 |
| $n_C-n_{A'}$ | 0,006966 |
| n_d-n_C | 0,006436 |
| n_e-n_C | 0,011672 |
| n_g-n_d | 0,029044 |
| n_g-n_F | 0,013310 |
| n_h-n_g | 0,011834 |
| n_i-n_g | |
| $n_{C'}-n_t$ | 0,016512 |
| $n_e-n_{C'}$ | 0,010667 |
| $n_{F'}-n_e$ | 0,011849 |
| $n_i-n_{F'}$ | |

| Relative Teildispersion | |
|-------------------------|--------|
| $\theta_{C,t}$ | 0,6995 |
| $\theta_{C,A'}$ | 0,3142 |
| $\theta_{d,C}$ | 0,2903 |
| $\theta_{e,C}$ | 0,5265 |
| $\theta_{g,d}$ | 1,3101 |
| $\theta_{g,F}$ | 0,6004 |
| $\theta_{h,g}$ | 0,5338 |
| $\theta_{i,g}$ | |
| $\theta'_{C,t}$ | 0,7333 |
| $\theta'_{e,C'}$ | 0,4738 |
| $\theta'_{F,e}$ | 0,5262 |
| $\theta'_{i,F'}$ | |

| Abweichung relativer Teildispersion | |
|-------------------------------------|--------|
| $\Delta \theta_{C,t}$ | 0,0071 |
| $\Delta \theta_{C,A'}$ | 0,0007 |
| $\Delta \theta_{g,d}$ | 0,0099 |
| $\Delta \theta_{g,F}$ | 0,0092 |
| $\Delta \theta_{i,g}$ | |

| Thermische Eigenschaften | |
|---|------|
| Untere Kühltemperatur StP (°C) | 560 |
| Obere Kühltemperatur AP (°C) | 588 |
| Transformationstemperatur Tg (°C) | 611 |
| Ausdehnungsgrenze At (°C) | 637 |
| Erweichungstemperatur SP (°C) | 701 |
| Ausdehnungskoeffizienten (-30~+70°C) | 82 |
| α (10 ⁻⁷ /°C) (+100~+300°C) | 98 |
| Wärmeleitfähigkeit k (W/m·K) | 1,01 |

| Färbung | | | |
|----------------|-----|-------------|-----|
| λ_{80} | 405 | λ_5 | 360 |
| λ_{70} | | | |

| Reintransmissionsgrad | | | |
|-----------------------|-----|------------------|-----|
| $\lambda_{0.80}$ | 391 | $\lambda_{0.05}$ | 362 |

| CCI | | |
|------|------|------|
| B | G | R |
| 0,00 | 2,30 | 2,36 |

| Reintransmissionsgrad | |
|-----------------------|-------------|
| $\lambda(nm)$ | τ 10mm |
| 280 | |
| 290 | |
| 300 | |
| 310 | |
| 320 | |
| 330 | |
| 340 | |
| 350 | |
| 360 | 0,01 |
| 370 | 0,23 |
| 380 | 0,58 |
| 390 | 0,79 |
| 400 | 0,88 |
| 420 | 0,951 |
| 440 | 0,970 |
| 460 | 0,978 |
| 480 | 0,983 |
| 500 | 0,987 |
| 550 | 0,994 |
| 600 | 0,995 |
| 650 | 0,994 |
| 700 | 0,995 |
| 800 | 0,998 |
| 900 | 0,998 |
| 1000 | 0,998 |
| 1200 | 0,998 |
| 1400 | 0,996 |
| 1600 | 0,996 |
| 1800 | 0,989 |
| 2000 | 0,983 |
| 2200 | 0,961 |
| 2400 | 0,948 |

| Andere Eigenschaften | |
|----------------------|------|
| Dichte d | 2,98 |

| Temperaturkoeffizienten der Brechzahl | | | | | | | |
|---------------------------------------|--|-----|-------|-----|-----|-----|-----|
| Temperaturbereich (°C) | dn/dT relativ (10 ⁻⁶ /°C) | | | | | | |
| | t | C' | He-Ne | D | e | F' | g |
| -40~-20 | 1,3 | 1,9 | 2,0 | 2,2 | 2,6 | 3,4 | 4,5 |
| -20~0 | 1,3 | 2,0 | 2,1 | 2,3 | 2,7 | 3,6 | 4,7 |
| 0~20 | 1,3 | 2,1 | 2,2 | 2,5 | 2,9 | 3,8 | 5,0 |
| 20~40 | 1,4 | 2,2 | 2,3 | 2,6 | 3,0 | 4,0 | 5,2 |
| 40~60 | 1,4 | 2,3 | 2,4 | 2,7 | 3,1 | 4,2 | 5,5 |
| 60~80 | 1,4 | 2,4 | 2,5 | 2,8 | 3,3 | 4,4 | 5,7 |