

| | | | | | | | | |
|-----------|-------|----------------------------|-----------|---------|--------------|------------|--------------|-----------------|
| Brechzahl | n_d | 1,65412 1,654115 | Abbe Zahl | ν_d | 39,68 | Dispersion | n_F-n_C | 0,016484 |
| Brechzahl | n_e | 1,658026 | Abbe Zahl | ν_e | 39,43 | Dispersion | $n_F-n_{C'}$ | 0,016687 |

| Brechzahlen | | |
|------------------------|----------|---------|
| $\lambda(\mu\text{m})$ | | |
| n_{2325} | 2.32542 | 1,61410 |
| n_{1970} | 1.97009 | 1,62070 |
| n_{1530} | 1.52958 | 1,62787 |
| n_{1129} | 1.12864 | 1,63448 |
| n_t | 1.01398 | 1,63677 |
| n_s | 0.85211 | 1,64090 |
| $n_{A'}$ | 0.76819 | 1,64379 |
| n_r | 0.70652 | 1,64649 |
| n_C | 0.65627 | 1,64923 |
| $n_{C'}$ | 0.64385 | 1,65000 |
| $n_{\text{He-Ne}}$ | 0.6328 | 1,65072 |
| n_D | 0.58929 | 1,65397 |
| n_d | 0.58756 | 1,65412 |
| n_e | 0.54607 | 1,65803 |
| n_F | 0.48613 | 1,66571 |
| $n_{F'}$ | 0.47999 | 1,66668 |
| $n_{\text{He-Cd}}$ | 0.44157 | 1,67389 |
| n_g | 0.435835 | 1,67517 |
| n_h | 0.404656 | 1,68331 |
| n_i | 0.365015 | 1,69791 |

| Konstanten der Dispersionsformel | |
|----------------------------------|----------------|
| A ₁ | 1,47544521E+00 |
| A ₂ | 1,93060095E-01 |
| A ₃ | 1,50939010E+00 |
| B ₁ | 9,55836740E-03 |
| B ₂ | 4,60430483E-02 |
| B ₃ | 1,26422746E+02 |

| Chemische Eigenschaften | |
|-----------------------------------------|-----|
| Wasserresistenz (Pulvergruppe) RW(P) | 1 |
| Säureresistenz (Pulvergruppe) RA(P) | 1 |
| Klimaresistenz (Oberflächengruppe) W(S) | 2 |
| Säureresistenz (Oberflächengruppe) SR | 1.0 |
| Phosphatresistenz PR | 1.0 |

| Mechanische Eigenschaften | |
|--------------------------------------------------------------|---------|
| Elastizitätsmodul E (10 ⁹ N/m ²) | 902 |
| Torsionsmodul G (10 ⁹ N/m ²) | 361 |
| Poissonzahl σ | 0,248 |
| Knoop Härte Hk [Klasse] | 580 6 |
| Schleifhärte Aa | 130 |
| Photoelastische Konstante β (nm/cm/10 ⁹ Pa) | 3,22 |

| Teildispersion | |
|----------------|----------|
| n_C-n_t | 0,012452 |
| $n_C-n_{A'}$ | 0,005432 |
| n_d-n_C | 0,004890 |
| n_e-n_C | 0,008801 |
| n_g-n_d | 0,021051 |
| n_g-n_F | 0,009457 |
| n_h-n_g | 0,008144 |
| n_i-n_g | 0,022741 |
| $n_{C'}-n_t$ | 0,013223 |
| $n_e-n_{C'}$ | 0,008030 |
| $n_{F'}-n_e$ | 0,008657 |
| $n_i-n_{F'}$ | 0,031224 |

| Relative Teildispersion | |
|-------------------------|--------|
| $\theta_{C,t}$ | 0,7554 |
| $\theta_{C,A'}$ | 0,3295 |
| $\theta_{d,C}$ | 0,2967 |
| $\theta_{e,C}$ | 0,5339 |
| $\theta_{g,d}$ | 1,2771 |
| $\theta_{g,F}$ | 0,5737 |
| $\theta_{h,g}$ | 0,4941 |
| $\theta_{i,g}$ | 1,3796 |
| $\theta'_{C',t}$ | 0,7924 |
| $\theta'_{e,C'}$ | 0,4812 |
| $\theta'_{F',e}$ | 0,5188 |
| $\theta'_{i,F'}$ | 1,8712 |

| Abweichung relativer Teildispersion | |
|-------------------------------------|---------|
| $\Delta \theta_{C,t}$ | 0,0226 |
| $\Delta \theta_{C,A'}$ | 0,0056 |
| $\Delta \theta_{g,d}$ | -0,0052 |
| $\Delta \theta_{g,F}$ | -0,0036 |
| $\Delta \theta_{i,g}$ | -0,0132 |

| Thermische Eigenschaften | |
|-----------------------------------------------|-------|
| Untere Kühltemperatur StP (°C) | 489 |
| Obere Kühltemperatur AP (°C) | 511 |
| Transformationstemperatur Tg (°C) | 524 |
| Ausdehnungsgrenze At (°C) | 575 |
| Erweichungstemperatur SP (°C) | 645 |
| Ausdehnungskoeffizienten (-30~+70°C) | 66 |
| α (10 ⁻⁷ /°C) (+100~+300°C) | 84 |
| Wärmeleitfähigkeit k (W/m·K) | 0,965 |

| Färbung | | | |
|----------------|-----|-------------|-----|
| λ_{80} | 370 | λ_5 | 325 |
| λ_{70} | | | |

| Reintransmissionsgrad | | | |
|-----------------------|-----|------------------|-----|
| $\lambda_{0.80}$ | 357 | $\lambda_{0.05}$ | 328 |

| CCI | | |
|------|------|------|
| B | G | R |
| 0,00 | 0,66 | 0,69 |

| Reintransmissionsgrad | |
|-----------------------|-------------|
| $\lambda(\text{nm})$ | τ 10mm |
| 280 | |
| 290 | |
| 300 | |
| 310 | |
| 320 | |
| 330 | 0,12 |
| 340 | 0,47 |
| 350 | 0,71 |
| 360 | 0,83 |
| 370 | 0,902 |
| 380 | 0,936 |
| 390 | 0,957 |
| 400 | 0,969 |
| 420 | 0,980 |
| 440 | 0,985 |
| 460 | 0,988 |
| 480 | 0,991 |
| 500 | 0,994 |
| 550 | 0,997 |
| 600 | 0,997 |
| 650 | 0,997 |
| 700 | 0,998 |
| 800 | 0,999 |
| 900 | 0,999 |
| 1000 | 0,999 |
| 1200 | 0,999 |
| 1400 | 0,991 |
| 1600 | 0,994 |
| 1800 | 0,989 |
| 2000 | 0,976 |
| 2200 | 0,919 |
| 2400 | 0,80 |

| Andere Eigenschaften | |
|-------------------------|------|
| Blasenqualitätsgruppe B | |
| Dichte d | 3,02 |
| Bemerkungen | |

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