

SCHOTT
glass made of ideas

Optisches Glas

Anfragegläser Datenblätter



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Erklärungen

Brechzahlen

Die Brechzahlen n werden für maximal 23 Wellenlängen im Bereich zwischen 248,2 nm und 2325,4 nm angegeben.

Konstanten der Dispersionsformel

Aus der Dispersionsformel nach Sellmeier

$$n^2(\lambda) - 1 = \frac{B_1 \lambda^2}{\lambda^2 - C_1} + \frac{B_2 \lambda^2}{\lambda^2 - C_2} + \frac{B_3 \lambda^2}{\lambda^2 - C_3}$$

lassen sich mit Hilfe der Konstanten B_1, B_2, B_3 , und C_1, C_2, C_3 die Brechzahlen für beliebige Wellenlängen im Bereich vom nahen UV bis 2.3 μm berechnen.

Konstanten der Formel für dn/dT

Die Temperaturabhängigkeit des Brechungsindex kann mittels folgender Formel berechnet werden:

$$\frac{dn_{\text{abs}}(\lambda, T)}{dT} = \frac{n^2(\lambda, T_0) - 1}{2 n(\lambda, T_0)} \left(D_0 + 2 D_1 \Delta T + 3 D_2 \Delta T^2 + \frac{E_0 + 2 E_1 \Delta T}{\lambda^2 - \lambda_{\text{TK}}^2} \right)$$

Die Konstanten gelten für einen Temperaturbereich von $-100\text{ }^\circ\text{C}$ bis $+140\text{ }^\circ\text{C}$ und einen Wellenlängenbereich von $0,365\text{ }\mu\text{m}$ bis $1,014\text{ }\mu\text{m}$. Die Temperaturkoeffizienten in den Datenblättern sind Richtwerte.

Temperaturkoeffizient der Lichtbrechung

$\Delta n_{\text{rel}} / \Delta T$ bei Normaldruck 1013,3 mbar

$\Delta n_{\text{abs}} / \Delta T$ bezogen auf Vakuum

Reintransmissionsgrad τ_i

Die Reintransmission im Wellenlängenbereich zwischen 250 nm und 2500 nm ist für 10 und 25 mm Dicke aufgeführt. Die Reintransmission und der Farbcode, die im Datenblatt aufgeführt sind, sind Mittelwerte aus mehreren Schmelzen eines Glastyps. Bei HT und HTultra-Gläsern umfasst die Reintransmission im sichtbaren Spektrum garantierte Mindestwerte.

Farbcode

Der Farbcode gibt die Wellenlängen λ_{80} und λ_5 an, bei denen die Transmission für 10 mm Dicke 0,80 bzw. 0,05 beträgt. Die Werte sind auf 10 nm gerundet und werden unter Weglassen der Einerstelle notiert. Für hoch brechende Glasarten mit $nd > 1,83$ beziehen sich die Angaben des Farbcodes (markiert mit *) auf die Transmissionswerte 0,70 bzw. 0,05 (λ_{70} und λ_5).

Relative Teildispersionen

Die relativen Teildispersionen P_{xy} und P'_{xy} für die Wellenlänge x und y ergeben sich aus den Gleichungen.

$$P_{xy} = \frac{n_x - n_y}{n_F - n_C} \quad \text{und} \quad P'_{xy} = \frac{n_x - n_y}{n_{F'} - n_{C'}}$$

Abweichung der relativen Teildispersion von der "Normalgeraden" ΔP

Der Term ΔP_{xy} beschreibt quantitativ ein von den "Normalgläsern" abweichendes Verhalten der Dispersion.

Sonstige Eigenschaften

| | |
|--------------------|---|
| $\alpha_{-30/+70}$ | = Koeffizient der thermischen Längenausdehnung im Temperaturbereich zwischen -30°C und $+70^{\circ}\text{C}$ in $10^{-6}/\text{K}$ |
| $\alpha_{20/300}$ | = Koeffizient der thermischen Längenausdehnung im Temperaturbereich zwischen $+20^{\circ}\text{C}$ und $+300^{\circ}\text{C}$ in $10^{-6}/\text{K}$ |
| T_g | = Transformationstemperatur in $^{\circ}\text{C}$ |
| $T_{10^{13.0}}$ | = Temperatur des Glases in $^{\circ}\text{C}$ bei einer Viskosität von 10^{13} dPa·s |
| $T_{10^{7.6}}$ | = Temperatur des Glases in $^{\circ}\text{C}$ bei einer Viskosität von $10^{7.6}$ dPa·s |
| c_p | = mittlere spezifische Wärmekapazität in $\text{J}/(\text{g}\cdot\text{K})$ |
| λ | = Wärmeleitfähigkeit in $\text{W}/(\text{m}\cdot\text{K})$ |
| AT^* | = dilatometrischer Erweichungspunkt in $^{\circ}\text{C}$ |
| ρ | = Dichte in g/cm^3 |
| E | = Elastizitätsmodul in 10^3 N/mm ² |
| μ | = Poissonzahl |
| K | = Spannungsoptischer Koeffizient in 10^{-6} mm ² /N |
| HK | = Knoophärte |
| HG | = Schleifbarkeitsklasse (ISO 12844) |
| Abrasion Aa* | = Schleifbarkeit gemäß JOGIS** |
| CR | = Klima-Resistenz Resistenz gegenüber Luftfeuchte, ausgedrückt in CR-Klassen 1 (hoch) bis 4 (gering). |
| FR | = Flecken-Resistenz Resistenz gegenüber Fleckenbildung, ausgedrückt in FR-Klassen 0 (hoch) bis 5 (gering). |
| SR | = Säure-Resistenz Resistenz gegenüber sauren Lösungen, ausgedrückt in SR-Klassen 1 (hoch) bis 4 (gering) und 51 bis 53 (sehr gering). |
| AR | = Alkali-Resistenz Resistenz gegenüber alkalischen Lösungen, ausgedrückt in AR-Klassen 1 (hoch) bis 4 (gering). |
| PR | = Phosphat-Resistenz Resistenz gegenüber einer alkalischen phosphathaltigen Lösung, ausgedrückt in PR-Klassen 1 (hoch) bis 4 (gering). |
| SR-J* | = Säure-Resistenzklasse nach JOGIS** |
| WR-J* | = Wasser-Resistenzklasse nach JOGIS** |

* Nur für Gläser zum Blankpressen

** JOGIS = Japanese Optical Glass Industrial Standards

BAFN6
589485.317

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,58900$ | $v_d = 48,45$ | $n_F - n_C = 0,012158$ |
| $n_e = 1,59189$ | $v_e = 48,16$ | $n_{F'} - n_{C'} = 0,012291$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,55832 |
| $n_{1970,1}$ | 1970,1 | 1,56349 |
| $n_{1529,6}$ | 1529,6 | 1,56910 |
| $n_{1060,0}$ | 1060,0 | 1,57522 |
| n_t | 1014,0 | 1,57596 |
| n_s | 852,1 | 1,57910 |
| n_r | 706,5 | 1,58332 |
| n_C | 656,3 | 1,58536 |
| $n_{C'}$ | 643,8 | 1,58594 |
| $n_{632,8}$ | 632,8 | 1,58647 |
| n_D | 589,3 | 1,58889 |
| n_d | 587,6 | 1,58900 |
| n_e | 546,1 | 1,59189 |
| n_F | 486,1 | 1,59752 |
| $n_{F'}$ | 480,0 | 1,59823 |
| n_g | 435,8 | 1,60436 |
| n_h | 404,7 | 1,61017 |
| n_i | 365,0 | 1,62038 |
| $n_{334,1}$ | 334,1 | |
| $n_{312,6}$ | 312,6 | |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | | |
| 2325 | 0,910 | 0,780 |
| 1970 | 0,976 | 0,940 |
| 1530 | 0,998 | 0,995 |
| 1060 | 0,998 | 0,995 |
| 700 | 0,999 | 0,997 |
| 660 | 0,998 | 0,995 |
| 620 | 0,998 | 0,994 |
| 580 | 0,998 | 0,994 |
| 546 | 0,996 | 0,991 |
| 500 | 0,994 | 0,986 |
| 460 | 0,990 | 0,975 |
| 436 | 0,985 | 0,963 |
| 420 | 0,981 | 0,954 |
| 405 | 0,976 | 0,940 |
| 400 | 0,971 | 0,930 |
| 390 | 0,954 | 0,890 |
| 380 | 0,920 | 0,810 |
| 370 | 0,850 | 0,670 |
| 365 | 0,790 | 0,560 |
| 350 | 0,430 | 0,120 |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2580 |
| $P_{C,s}$ | 0,5152 |
| $P_{d,C}$ | 0,2993 |
| $P_{e,d}$ | 0,2377 |
| $P_{g,F}$ | 0,5625 |
| $P_{i,h}$ | 0,8405 |
| $P'_{s,t}$ | 0,2552 |
| $P'_{C',s}$ | 0,5565 |
| $P'_{d,C'}$ | 0,2492 |
| $P'_{e,d}$ | 0,2351 |
| $P'_{g,F'}$ | 0,4987 |
| $P'_{i,h}$ | 0,8314 |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | -0,0015 |
| $\Delta P_{C,s}$ | -0,0006 |
| $\Delta P_{F,e}$ | 0,0001 |
| $\Delta P_{g,F}$ | 0,0002 |
| $\Delta P_{i,g}$ | 0,0002 |

| Konstanten der Dispersionsformel | |
|-------------------------------------|---------------|
| B_1 | 1,36719201 |
| B_2 | 0,10907994 |
| B_3 | 1,02108011 |
| C_1 | 0,00882820704 |
| C_2 | 0,0438731646 |
| C_3 | 113,58602 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 7,8 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 8,5 |
| $T_g [^\circ C]$ | 549 |
| $T_{10}^{13,0} [^\circ C]$ | 0 |
| $T_{10}^{7,6} [^\circ C]$ | 0 |
| $c_p [J/(g \cdot K)]$ | |
| $\lambda [W/(m \cdot K)]$ | |
| $\rho [g/cm^3]$ | 3,17 |
| $E [10^3 N/mm^2]$ | 77 |
| μ | 0,234 |
| $K [10^{-6} mm^2/N]$ | 2,50 |
| $HK_{0,1/20}$ | 540 |
| HG | |
| CR | 2 |
| FR | 0 |
| SR | 2 |
| AR | 2 |
| PR | 1 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $1,34 \cdot 10^{-6}$ |
| D_1 | $1,34 \cdot 10^{-8}$ |
| D_2 | $-5,50 \cdot 10^{-11}$ |
| E_0 | $4,95 \cdot 10^{-7}$ |
| E_1 | $3,62 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,265 |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 38/33 |
| (* = λ_{70}/λ_5) | |

| Bemerkungen | |
|-------------------------|--|
| Anfrageglas, bleihaltig | |

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

BK7G18 520636.252

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,51975$ | $v_d = 63,58$ | $n_F - n_C = 0,008174$ |
| $n_e = 1,52170$ | $v_e = 63,36$ | $n_{F'} - n_{C'} = 0,008233$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,49203 |
| $n_{1970,1}$ | 1970,1 | 1,49777 |
| $n_{1529,6}$ | 1529,6 | 1,50373 |
| $n_{1060,0}$ | 1060,0 | 1,50953 |
| n_t | 1014,0 | 1,51015 |
| n_s | 852,1 | 1,51267 |
| n_r | 706,5 | 1,51579 |
| n_C | 656,3 | 1,51724 |
| $n_{C'}$ | 643,8 | 1,51764 |
| $n_{632,8}$ | 632,8 | 1,51802 |
| n_D | 589,3 | 1,51968 |
| n_d | 587,6 | 1,51975 |
| n_e | 546,1 | 1,52170 |
| n_F | 486,1 | 1,52541 |
| $n_{F'}$ | 480,0 | 1,52587 |
| n_g | 435,8 | 1,52981 |
| n_h | 404,7 | 1,53345 |
| n_i | 365,0 | 1,53970 |
| $n_{334,1}$ | 334,1 | |
| $n_{312,6}$ | 312,6 | |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,634 | 0,320 |
| 2325 | 0,782 | 0,540 |
| 1970 | 0,933 | 0,841 |
| 1530 | 0,992 | 0,979 |
| 1060 | 0,999 | 0,998 |
| 700 | 0,997 | 0,993 |
| 660 | 0,995 | 0,988 |
| 620 | 0,994 | 0,984 |
| 580 | 0,992 | 0,979 |
| 546 | 0,989 | 0,973 |
| 500 | 0,982 | 0,957 |
| 460 | 0,970 | 0,927 |
| 436 | 0,947 | 0,873 |
| 420 | 0,905 | 0,780 |
| 405 | 0,815 | 0,600 |
| 400 | 0,764 | 0,510 |
| 390 | 0,601 | 0,280 |
| 380 | 0,360 | 0,080 |
| 370 | 0,080 | |
| 365 | 0,020 | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,3077 |
| $P_{C,s}$ | 0,5591 |
| $P_{d,C}$ | 0,3071 |
| $P_{e,d}$ | 0,2385 |
| $P_{g,F}$ | 0,5376 |
| $P_{i,h}$ | 0,7640 |
| $P'_{s,t}$ | 0,3055 |
| $P'_{C',s}$ | 0,6040 |
| $P'_{d,C'}$ | 0,2561 |
| $P'_{e,d}$ | 0,2368 |
| $P'_{g,F'}$ | 0,4777 |
| $P'_{i,h}$ | 0,7585 |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0203 |
| $\Delta P_{C,s}$ | 0,0080 |
| $\Delta P_{F,e}$ | -0,0006 |
| $\Delta P_{g,F}$ | 0,0007 |
| $\Delta P_{i,g}$ | 0,0189 |

| Konstanten der Dispersionsformel | |
|-------------------------------------|---------------|
| B_1 | 1,26538542 |
| B_2 | 0,0144191073 |
| B_3 | 1,00323028 |
| C_1 | 0,00813104078 |
| C_2 | 0,0543303226 |
| C_3 | 102,821166 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 7,0 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 8,2 |
| $T_g [^\circ C]$ | 585 |
| $T_{10}^{13,0} [^\circ C]$ | 570 |
| $T_{10}^{7,6} [^\circ C]$ | 722 |
| $c_p [J/(g \cdot K)]$ | 0,820 |
| $\lambda [W/(m \cdot K)]$ | 1,190 |
| $\rho [g/cm^3]$ | 2,52 |
| $E [10^3 N/mm^2]$ | 82 |
| μ | 0,205 |
| $K [10^{-6} mm^2/N]$ | 2,77 |
| $HK_{0,1/20}$ | 580 |
| HG | |
| CR | |
| FR | 0 |
| SR | 1 |
| AR | 2 |
| PR | 0 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $1,52 \cdot 10^{-6}$ |
| D_1 | $1,37 \cdot 10^{-8}$ |
| D_2 | $-1,26 \cdot 10^{-11}$ |
| E_0 | $4,36 \cdot 10^{-7}$ |
| E_1 | $4,17 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,194 |

| Farbcode | |
|-----------------------------------|-------|
| λ_{80}/λ_{5} | 41/37 |
| (* = λ_{70}/λ_{5}) | |

| Bemerkungen | |
|--------------------------|--|
| strahlenresistentes Glas | |

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

F2G12
621366.360

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,62072$ | $v_d = 36,56$ | $n_F - n_C = 0,016979$ |
| $n_e = 1,62474$ | $v_e = 36,30$ | $n_{F'} - n_{C'} = 0,017212$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,58584 |
| $n_{1970,1}$ | 1970,1 | 1,59051 |
| $n_{1529,6}$ | 1529,6 | 1,59593 |
| $n_{1060,0}$ | 1060,0 | 1,60265 |
| n_t | 1014,0 | 1,60353 |
| n_s | 852,1 | 1,60744 |
| n_r | 706,5 | 1,61298 |
| n_C | 656,3 | 1,61573 |
| $n_{C'}$ | 643,8 | 1,61652 |
| $n_{632,8}$ | 632,8 | 1,61725 |
| n_D | 589,3 | 1,62057 |
| n_d | 587,6 | 1,62072 |
| n_e | 546,1 | 1,62474 |
| n_F | 486,1 | 1,63271 |
| $n_{F'}$ | 480,0 | 1,63373 |
| n_g | 435,8 | 1,64261 |
| n_h | 404,7 | 1,65121 |
| 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 τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,891 | 0,750 |
| 2325 | 0,924 | 0,820 |
| 1970 | 0,971 | 0,930 |
| 1530 | 0,996 | 0,989 |
| 1060 | 0,999 | 0,997 |
| 700 | 0,995 | 0,988 |
| 660 | 0,994 | 0,984 |
| 620 | 0,992 | 0,979 |
| 580 | 0,989 | 0,972 |
| 546 | 0,985 | 0,963 |
| 500 | 0,974 | 0,937 |
| 460 | 0,937 | 0,850 |
| 436 | 0,842 | 0,650 |
| 420 | 0,693 | 0,400 |
| 405 | 0,428 | 0,120 |
| 400 | 0,325 | 0,060 |
| 390 | 0,124 | |
| 380 | 0,019 | |
| 370 | | |
| 365 | | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2303 |
| $P_{C,s}$ | 0,4883 |
| $P_{d,C}$ | 0,2937 |
| $P_{e,d}$ | 0,2369 |
| $P_{g,F}$ | 0,5831 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,2272 |
| $P'_{C',s}$ | 0,5271 |
| $P'_{d,C'}$ | 0,2443 |
| $P'_{e,d}$ | 0,2337 |
| $P'_{g,F'}$ | 0,5163 |
| $P'_{i,h}$ | |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|--------|
| $\Delta P_{C,t}$ | 0,0002 |
| $\Delta P_{C,s}$ | 0,0002 |
| $\Delta P_{F,e}$ | 0,0002 |
| $\Delta P_{g,F}$ | 0,0008 |
| $\Delta P_{i,g}$ | |

| Konstanten der Dispersionsformel | |
|-------------------------------------|---------------|
| B_1 | 1,34702224 |
| B_2 | 0,210037763 |
| B_3 | 19,5350768 |
| C_1 | 0,00980850553 |
| C_2 | 0,0471788018 |
| C_3 | 2279,1547 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 8,1 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 9,0 |
| $T_g [^\circ C]$ | 435 |
| $T_{10}^{13,0} [^\circ C]$ | 438 |
| $T_{10}^{7,6} [^\circ C]$ | 604 |
| $c_p [J/(g \cdot K)]$ | 0,530 |
| $\lambda [W/(m \cdot K)]$ | 0,820 |
| $\rho [g/cm^3]$ | 3,60 |
| $E [10^3 N/mm^2]$ | 58 |
| μ | 0,222 |
| $K [10^{-6} mm^2/N]$ | 2,79 |
| $HK_{0,1/20}$ | 428 |
| HG | |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1.3 |
| PR | 2.3 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|--|
| D_0 | |
| D_1 | |
| D_2 | |
| E_0 | |
| E_1 | |
| $\lambda_{TK} [\mu m]$ | |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 45/39 |
| (* = λ_{70}/λ_5) | |

| Bemerkungen | |
|--------------------------|--|
| strahlenresistentes Glas | |

| 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 | | | | | | |
| +20/ +40 | | | | | | |
| +60/ +80 | | | | | | |

FK3
464658.227

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,46450$ | $v_d = 65,77$ | $n_F - n_C = 0,007063$ |
| $n_e = 1,46619$ | $v_e = 65,57$ | $n_{F'} - n_{C'} = 0,007110$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,43972 |
| $n_{1970,1}$ | 1970,1 | 1,44498 |
| $n_{1529,6}$ | 1529,6 | 1,45039 |
| $n_{1060,0}$ | 1060,0 | 1,45557 |
| n_t | 1014,0 | 1,45612 |
| n_s | 852,1 | 1,45834 |
| n_r | 706,5 | 1,46106 |
| n_C | 656,3 | 1,46232 |
| $n_{C'}$ | 643,8 | 1,46267 |
| $n_{632,8}$ | 632,8 | 1,46300 |
| n_D | 589,3 | 1,46444 |
| n_d | 587,6 | 1,46450 |
| n_e | 546,1 | 1,46619 |
| n_F | 486,1 | 1,46939 |
| $n_{F'}$ | 480,0 | 1,46978 |
| n_g | 435,8 | 1,47315 |
| n_h | 404,7 | 1,47625 |
| n_i | 365,0 | 1,48149 |
| $n_{334,1}$ | 334,1 | 1,48708 |
| $n_{312,6}$ | 312,6 | 1,49217 |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,650 | 0,340 |
| 2325 | 0,810 | 0,590 |
| 1970 | 0,971 | 0,930 |
| 1530 | 0,988 | 0,970 |
| 1060 | 0,998 | 0,995 |
| 700 | 0,997 | 0,993 |
| 660 | 0,997 | 0,993 |
| 620 | 0,997 | 0,993 |
| 580 | 0,997 | 0,993 |
| 546 | 0,997 | 0,993 |
| 500 | 0,997 | 0,993 |
| 460 | 0,996 | 0,990 |
| 436 | 0,996 | 0,989 |
| 420 | 0,995 | 0,987 |
| 405 | 0,994 | 0,986 |
| 400 | 0,994 | 0,985 |
| 390 | 0,994 | 0,984 |
| 380 | 0,992 | 0,980 |
| 370 | 0,988 | 0,971 |
| 365 | 0,985 | 0,964 |
| 350 | 0,954 | 0,890 |
| 334 | 0,890 | 0,740 |
| 320 | 0,700 | 0,410 |
| 310 | 0,510 | 0,190 |
| 300 | 0,300 | 0,050 |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,3133 |
| $P_{C,s}$ | 0,5644 |
| $P_{d,C}$ | 0,3083 |
| $P_{e,d}$ | 0,2387 |
| $P_{g,F}$ | 0,5329 |
| $P_{i,h}$ | 0,7419 |
| | |
| $P'_{s,t}$ | 0,3112 |
| $P'_{C',s}$ | 0,6097 |
| $P'_{d,C'}$ | 0,2571 |
| $P'_{e,d}$ | 0,2371 |
| $P'_{g,F'}$ | 0,4736 |
| $P'_{i,h}$ | 0,7370 |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0207 |
| $\Delta P_{C,s}$ | 0,0082 |
| $\Delta P_{F,e}$ | -0,0008 |
| $\Delta P_{g,F}$ | -0,0003 |
| $\Delta P_{i,g}$ | 0,0079 |

| Konstanten der Dispersionsformel | |
|-------------------------------------|---------------|
| B_1 | 0,973346627 |
| B_2 | 0,146642231 |
| B_3 | 0,679304225 |
| C_1 | 0,00640795469 |
| C_2 | 0,020565293 |
| C_3 | 80,4965389 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 8,2 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 9,4 |
| $T_g [^\circ C]$ | 362 |
| $T_{10}^{13,0} [^\circ C]$ | 369 |
| $T_{10}^{7,6} [^\circ C]$ | 622 |
| $c_p [J/(g \cdot K)]$ | 0,840 |
| $\lambda [W/(m \cdot K)]$ | 0,900 |
| | |
| $\rho [g/cm^3]$ | 2,27 |
| $E [10^3 N/mm^2]$ | 46 |
| μ | 0,243 |
| $K [10^{-6} mm^2/N]$ | 3,71 |
| $HK_{0,1/20}$ | 380 |
| HG | 0 |
| | |
| | |
| | |
| CR | 2 |
| FR | 3 |
| SR | 52,4 |
| AR | 2 |
| PR | 1 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $-4,90 \cdot 10^{-6}$ |
| D_1 | $1,23 \cdot 10^{-8}$ |
| D_2 | $-1,19 \cdot 10^{-10}$ |
| E_0 | $3,45 \cdot 10^{-7}$ |
| E_1 | $7,72 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,18 |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 33/30 |
| (* = λ_{70}/λ_5) | |

| Bemerkungen | |
|-------------|--|
| Anfrageglas | |

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|---------------------------------------|------|------|---------------------------------------|------|------|
| | $\Delta n_{rel}/\Delta T [10^{-6}/K]$ | | | $\Delta n_{abs}/\Delta T [10^{-6}/K]$ | | |
| $[^\circ C]$ | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | -0,7 | -0,4 | -0,1 | -2,6 | -2,4 | -2,1 |
| +20/ +40 | -0,4 | 0,0 | 0,3 | -1,7 | -1,3 | -1,0 |
| +60/ +80 | -0,6 | -0,2 | 0,3 | -1,6 | -1,2 | -0,8 |

K5G20
523568.259

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,52344$ | $v_d = 56,76$ | $n_F - n_C = 0,009222$ |
| $n_e = 1,52564$ | $v_e = 56,47$ | $n_{F'} - n_{C'} = 0,009308$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,49784 |
| $n_{1970,1}$ | 1970,1 | 1,50236 |
| $n_{1529,6}$ | 1529,6 | 1,50730 |
| $n_{1060,0}$ | 1060,0 | 1,51258 |
| n_t | 1014,0 | 1,51319 |
| n_s | 852,1 | 1,51573 |
| n_r | 706,5 | 1,51906 |
| n_C | 656,3 | 1,52065 |
| $n_{C'}$ | 643,8 | 1,52109 |
| $n_{632,8}$ | 632,8 | 1,52151 |
| n_D | 589,3 | 1,52336 |
| n_d | 587,6 | 1,52344 |
| n_e | 546,1 | 1,52564 |
| n_F | 486,1 | 1,52987 |
| $n_{F'}$ | 480,0 | 1,53040 |
| n_g | 435,8 | 1,53494 |
| n_h | 404,7 | 1,53919 |
| n_i | 365,0 | 1,54651 |
| $n_{334,1}$ | 334,1 | |
| $n_{312,6}$ | 312,6 | |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,634 | 0,320 |
| 2325 | 0,733 | 0,460 |
| 1970 | 0,896 | 0,760 |
| 1530 | 0,990 | 0,976 |
| 1060 | 0,998 | 0,995 |
| 700 | 0,997 | 0,992 |
| 660 | 0,995 | 0,987 |
| 620 | 0,994 | 0,985 |
| 580 | 0,993 | 0,982 |
| 546 | 0,990 | 0,976 |
| 500 | 0,984 | 0,961 |
| 460 | 0,971 | 0,930 |
| 436 | 0,954 | 0,890 |
| 420 | 0,924 | 0,820 |
| 405 | 0,857 | 0,680 |
| 400 | 0,821 | 0,610 |
| 390 | 0,686 | 0,390 |
| 380 | 0,442 | 0,130 |
| 370 | 0,130 | |
| 365 | 0,029 | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2764 |
| $P_{C,s}$ | 0,5327 |
| $P_{d,C}$ | 0,3027 |
| $P_{e,d}$ | 0,2382 |
| $P_{g,F}$ | 0,5500 |
| $P_{i,h}$ | 0,7943 |
| $P'_{s,t}$ | 0,2738 |
| $P'_{C',s}$ | 0,5755 |
| $P'_{d,C'}$ | 0,2523 |
| $P'_{e,d}$ | 0,2360 |
| $P'_{g,F'}$ | 0,4881 |
| $P'_{i,h}$ | 0,7870 |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | -0,0051 |
| $\Delta P_{C,s}$ | -0,0025 |
| $\Delta P_{F,e}$ | 0,0005 |
| $\Delta P_{g,F}$ | 0,0017 |
| $\Delta P_{i,g}$ | 0,0065 |

| Konstanten der Dispersionsformel | |
|-------------------------------------|---------------|
| B_1 | 1,14094396 |
| B_2 | 0,14500119 |
| B_3 | 37,4705786 |
| C_1 | 0,00694945478 |
| C_2 | 0,0310574444 |
| C_3 | 4536,25624 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 9,0 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 10,3 |
| $T_g [^\circ C]$ | 483 |
| $T_{10}^{13,0} [^\circ C]$ | 501 |
| $T_{10}^{7,6} [^\circ C]$ | 679 |
| $c_p [J/(g \cdot K)]$ | 0,790 |
| $\lambda [W/(m \cdot K)]$ | 1,000 |
| $\rho [g/cm^3]$ | 2,59 |
| $E [10^3 N/mm^2]$ | 68 |
| μ | 0,222 |
| $K [10^{-6} mm^2/N]$ | |
| $HK_{0,1/20}$ | 510 |
| HG | |
| CR | |
| FR | 0 |
| SR | 1 |
| AR | 1 |
| PR | 0 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $-2,22 \cdot 10^{-6}$ |
| D_1 | $8,45 \cdot 10^{-9}$ |
| D_2 | $-3,31 \cdot 10^{-11}$ |
| E_0 | $5,44 \cdot 10^{-7}$ |
| E_1 | $4,95 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,214 |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 41/37 |
| (* = λ_{70}/λ_5) | |

| Bemerkungen | |
|--------------------------|--|
| strahlenresistentes Glas | |

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

KZFS12
696363.384

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,69600$ | $v_d = 36,29$ | $n_F - n_C = 0,019179$ |
| $n_e = 1,70055$ | $v_e = 36,06$ | $n_{F'} - n_{C'} = 0,019425$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,64970 |
| $n_{1970,1}$ | 1970,1 | 1,65749 |
| $n_{1529,6}$ | 1529,6 | 1,66580 |
| $n_{1060,0}$ | 1060,0 | 1,67488 |
| n_t | 1014,0 | 1,67598 |
| n_s | 852,1 | 1,68071 |
| n_r | 706,5 | 1,68717 |
| n_C | 656,3 | 1,69033 |
| $n_{C'}$ | 643,8 | 1,69122 |
| $n_{632,8}$ | 632,8 | 1,69206 |
| n_D | 589,3 | 1,69583 |
| n_d | 587,6 | 1,69600 |
| n_e | 546,1 | 1,70055 |
| n_F | 486,1 | 1,70951 |
| $n_{F'}$ | 480,0 | 1,71065 |
| n_g | 435,8 | 1,72059 |
| n_h | 404,7 | 1,73017 |
| n_i | 365,0 | 1,74746 |
| $n_{334,1}$ | 334,1 | |
| $n_{312,6}$ | 312,6 | |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,276 | 0,040 |
| 2325 | 0,618 | 0,300 |
| 1970 | 0,919 | 0,810 |
| 1530 | 0,976 | 0,940 |
| 1060 | 0,998 | 0,994 |
| 700 | 0,997 | 0,993 |
| 660 | 0,997 | 0,992 |
| 620 | 0,997 | 0,992 |
| 580 | 0,996 | 0,991 |
| 546 | 0,996 | 0,991 |
| 500 | 0,994 | 0,986 |
| 460 | 0,988 | 0,971 |
| 436 | 0,977 | 0,944 |
| 420 | 0,963 | 0,910 |
| 405 | 0,933 | 0,840 |
| 400 | 0,919 | 0,810 |
| 390 | 0,877 | 0,720 |
| 380 | 0,804 | 0,580 |
| 370 | 0,679 | 0,380 |
| 365 | 0,574 | 0,250 |
| 350 | 0,109 | 0,004 |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2468 |
| $P_{C,s}$ | 0,5013 |
| $P_{d,C}$ | 0,2957 |
| $P_{e,d}$ | 0,2371 |
| $P_{g,F}$ | 0,5778 |
| $P_{i,h}$ | 0,9012 |
| $P'_{s,t}$ | 0,2436 |
| $P'_{C',s}$ | 0,5409 |
| $P'_{d,C'}$ | 0,2460 |
| $P'_{e,d}$ | 0,2341 |
| $P'_{g,F'}$ | 0,5118 |
| $P'_{i,h}$ | 0,8898 |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0309 |
| $\Delta P_{C,s}$ | 0,0138 |
| $\Delta P_{F,e}$ | -0,0021 |
| $\Delta P_{g,F}$ | -0,0050 |
| $\Delta P_{i,g}$ | -0,0189 |

| Konstanten der Dispersionsformel | |
|-------------------------------------|--------------|
| B_1 | 1,55624873 |
| B_2 | 0,239769276 |
| B_3 | 0,947887658 |
| C_1 | 0,0102012744 |
| C_2 | 0,0469277969 |
| C_3 | 69,8370722 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 5,2 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 6,2 |
| $T_g [^\circ C]$ | 492 |
| $T_{10}^{13,0} [^\circ C]$ | 476 |
| $T_{10}^{7,6} [^\circ C]$ | 549 |
| $c_p [J/(g \cdot K)]$ | 0,540 |
| $\lambda [W/(m \cdot K)]$ | 0,710 |
| $\rho [g/cm^3]$ | 3,84 |
| $E [10^3 N/mm^2]$ | 66 |
| μ | 0,279 |
| $K [10^{-6} mm^2/N]$ | 2,35 |
| $HK_{0,1/20}$ | 440 |
| HG | 4 |
| CR | 4 |
| FR | 1 |
| SR | 53,3 |
| AR | 4,3 |
| PR | 4,3 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $4,36 \cdot 10^{-6}$ |
| D_1 | $1,32 \cdot 10^{-8}$ |
| D_2 | $-1,81 \cdot 10^{-11}$ |
| E_0 | $6,86 \cdot 10^{-7}$ |
| E_1 | $6,81 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,253 |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 40/35 |
| (* = λ_{70}/λ_5) | |

| Bemerkungen | |
|------------------------------------|--|
| Anfrageglas, bleihaltig glass type | |

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

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| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,69064$ | $v_d = 54,76$ | $n_F - n_C = 0,012612$ |
| $n_e = 1,69364$ | $v_e = 54,53$ | $n_{F'} - n_{C'} = 0,012721$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,65362 |
| $n_{1970,1}$ | 1970,1 | 1,66043 |
| $n_{1529,6}$ | 1529,6 | 1,66783 |
| $n_{1060,0}$ | 1060,0 | 1,67552 |
| n_t | 1014,0 | 1,67639 |
| n_s | 852,1 | 1,67999 |
| n_r | 706,5 | 1,68462 |
| n_C | 656,3 | 1,68680 |
| $n_{C'}$ | 643,8 | 1,68741 |
| $n_{632,8}$ | 632,8 | 1,68798 |
| n_D | 589,3 | 1,69052 |
| n_d | 587,6 | 1,69064 |
| n_e | 546,1 | 1,69364 |
| n_F | 486,1 | 1,69941 |
| $n_{F'}$ | 480,0 | 1,70013 |
| n_g | 435,8 | 1,70630 |
| n_h | 404,7 | 1,71205 |
| 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 τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,480 | 0,160 |
| 2325 | 0,752 | 0,490 |
| 1970 | 0,963 | 0,910 |
| 1530 | 0,995 | 0,987 |
| 1060 | 0,998 | 0,996 |
| 700 | 0,994 | 0,986 |
| 660 | 0,993 | 0,982 |
| 620 | 0,991 | 0,978 |
| 580 | 0,989 | 0,973 |
| 546 | 0,985 | 0,964 |
| 500 | 0,971 | 0,930 |
| 460 | 0,919 | 0,810 |
| 436 | 0,799 | 0,570 |
| 420 | 0,634 | 0,320 |
| 405 | 0,382 | 0,090 |
| 400 | 0,292 | 0,040 |
| 390 | 0,122 | 0,010 |
| 380 | 0,026 | |
| 370 | | |
| 365 | | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2852 |
| $P_{C,s}$ | 0,5400 |
| $P_{d,C}$ | 0,3040 |
| $P_{e,d}$ | 0,2383 |
| $P_{g,F}$ | 0,5462 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,2828 |
| $P'_{C',s}$ | 0,5834 |
| $P'_{d,C'}$ | 0,2533 |
| $P'_{e,d}$ | 0,2362 |
| $P'_{g,F'}$ | 0,4849 |
| $P'_{i,h}$ | |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0205 |
| $\Delta P_{C,s}$ | 0,0095 |
| $\Delta P_{F,e}$ | -0,0018 |
| $\Delta P_{g,F}$ | -0,0055 |
| $\Delta P_{i,g}$ | |

| Konstanten der Dispersionsformel | |
|-------------------------------------|--------------|
| B_1 | 1,28773667 |
| B_2 | 0,518244853 |
| B_3 | 26,1756109 |
| C_1 | 0,0055754192 |
| C_2 | 0,0223679524 |
| C_3 | 1892,2533 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 6,3 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 7,6 |
| $T_g [^\circ C]$ | 634 |
| $T_{10}^{13,0} [^\circ C]$ | 635 |
| $T_{10}^{7,6} [^\circ C]$ | 710 |
| $c_p [J/(g \cdot K)]$ | 0,660 |
| $\lambda [W/(m \cdot K)]$ | 0,880 |
| $\rho [g/cm^3]$ | 3,53 |
| $E [10^3 N/mm^2]$ | 108 |
| μ | 0,288 |
| $K [10^{-6} mm^2/N]$ | 1,86 |
| $HK_{0,1/20}$ | 721 |
| HG | |
| CR | 2 |
| FR | 2 |
| SR | 53 |
| AR | 1.3 |
| PR | 4.3 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|--|
| D_0 | |
| D_1 | |
| D_2 | |
| E_0 | |
| E_1 | |
| $\lambda_{TK} [\mu m]$ | |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 46/38 |
| (* = λ_{70}/λ_5) | |

| Bemerkungen | |
|--------------------------|--|
| strahlenresistentes Glas | |

| 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 | | | | | | |
| +20/ +40 | | | | | | |
| +60/ +80 | | | | | | |

LF5G15 584408.322

| | | |
|-----------------|---------------|--------------------------|
| $n_d = 1,58397$ | $v_d = 40,83$ | $n_F - n_C = 0,014301$ |
| $n_e = 1,58736$ | $v_e = 40,55$ | $n_F' - n_C' = 0,014484$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,55252 |
| $n_{1970,1}$ | 1970,1 | 1,55707 |
| $n_{1529,6}$ | 1529,6 | 1,56225 |
| $n_{1060,0}$ | 1060,0 | 1,56842 |
| n_t | 1014,0 | 1,56920 |
| n_s | 852,1 | 1,57263 |
| n_r | 706,5 | 1,57739 |
| n_C | 656,3 | 1,57974 |
| $n_{C'}$ | 643,8 | 1,58041 |
| $n_{632,8}$ | 632,8 | 1,58103 |
| n_D | 589,3 | 1,58384 |
| n_d | 587,6 | 1,58397 |
| n_e | 546,1 | 1,58736 |
| n_F | 486,1 | 1,59404 |
| $n_{F'}$ | 480,0 | 1,59489 |
| n_g | 435,8 | 1,60228 |
| n_h | 404,7 | |
| 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 | |

| Konstanten der Dispersionsformel | |
|----------------------------------|--------------|
| B_1 | 1,28887331 |
| B_2 | 0,162818811 |
| B_3 | 10,5579792 |
| C_1 | 0,0092001566 |
| C_2 | 0,0456954308 |
| C_3 | 1275,44015 |

| Konstanten der Formel für dn/dT | |
|-----------------------------------|--|
| D_0 | |
| D_1 | |
| D_2 | |
| E_0 | |
| E_1 | |
| λ_{TK} [μm] | |

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|---------------------------------------|---|---|---------------------------------------|---|---|
| | $\Delta n_{rel}/\Delta T [10^{-6}/K]$ | | | $\Delta n_{abs}/\Delta T [10^{-6}/K]$ | | |
| [$^{\circ}\text{C}$] | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | | | | | | |
| +20/ +40 | | | | | | |
| +60/ +80 | | | | | | |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,693 | 0,400 |
| 2325 | 0,770 | 0,520 |
| 1970 | 0,912 | 0,795 |
| 1530 | 0,994 | 0,985 |
| 1060 | 0,999 | 0,998 |
| 700 | 0,997 | 0,992 |
| 660 | 0,996 | 0,989 |
| 620 | 0,995 | 0,987 |
| 580 | 0,993 | 0,984 |
| 546 | 0,991 | 0,979 |
| 500 | 0,985 | 0,963 |
| 460 | 0,966 | 0,918 |
| 436 | 0,917 | 0,805 |
| 420 | 0,833 | 0,632 |
| 405 | 0,657 | 0,350 |
| 400 | 0,569 | 0,244 |
| 390 | 0,350 | 0,070 |
| 380 | 0,134 | |
| 370 | 0,020 | |
| 365 | | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Farbcode | |
|--------------------------------|-------|
| λ_{80}/λ_5 | 43/37 |
| (*= λ_{70}/λ_5) | |

| Bemerkungen |
|--------------------------|
| strahlenresistentes Glas |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2397 |
| $P_{C,s}$ | 0,4975 |
| $P_{d,C}$ | 0,2957 |
| $P_{e,d}$ | 0,2372 |
| $P_{g,F}$ | 0,5759 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,2367 |
| $P'_{C',s}$ | 0,5372 |
| $P'_{d,C'}$ | 0,2460 |
| $P'_{e,d}$ | 0,2342 |
| $P'_{g,F'}$ | 0,5101 |
| $P'_{i,h}$ | |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | -0,0015 |
| $\Delta P_{C,s}$ | -0,0006 |
| $\Delta P_{F,e}$ | 0,0002 |
| $\Delta P_{g,F}$ | 0,0008 |
| $\Delta P_{i,g}$ | |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^{\circ}\text{C}} [10^{-6}/K]$ | 9,3 |
| $\alpha_{+20/+300^{\circ}\text{C}} [10^{-6}/K]$ | 10,7 |
| $T_g [^{\circ}\text{C}]$ | 407 |
| $T_{10}^{13,0} [^{\circ}\text{C}]$ | 412 |
| $T_{10}^{7,6} [^{\circ}\text{C}]$ | 578 |
| $c_p [J/(g \cdot K)]$ | 0,600 |
| $\lambda [W/(m \cdot K)]$ | 0,860 |
| $\rho [g/cm^3]$ | 3,22 |
| $E [10^3 N/mm^2]$ | 60 |
| μ | 0,228 |
| $K [10^{-6} mm^2/N]$ | 2,77 |
| $HK_{0,1/20}$ | 446 |
| HG | |
| CR | 2 |
| FR | 0 |
| SR | 1 |
| AR | 1.3 |
| PR | 2.3 |

LF5G19
597399.330

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,59655$ | $v_d = 39,89$ | $n_F - n_C = 0,014954$ |
| $n_e = 1,60010$ | $v_e = 39,60$ | $n_{F'} - n_{C'} = 0,015153$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,56416 |
| $n_{1970,1}$ | 1970,1 | 1,56890 |
| $n_{1529,6}$ | 1529,6 | 1,57419 |
| $n_{1060,0}$ | 1060,0 | 1,58045 |
| n_t | 1014,0 | 1,58125 |
| n_s | 852,1 | 1,58477 |
| n_r | 706,5 | 1,58970 |
| n_C | 656,3 | 1,59214 |
| $n_{C'}$ | 643,8 | 1,59284 |
| $n_{632,8}$ | 632,8 | 1,59349 |
| n_D | 589,3 | 1,59642 |
| n_d | 587,6 | 1,59655 |
| n_e | 546,1 | 1,60010 |
| n_F | 486,1 | 1,60710 |
| $n_{F'}$ | 480,0 | 1,60799 |
| n_g | 435,8 | 1,61578 |
| n_h | 404,7 | 1,62330 |
| 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 τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,525 | 0,200 |
| 2325 | 0,631 | 0,316 |
| 1970 | 0,870 | 0,707 |
| 1530 | 0,992 | 0,979 |
| 1060 | 0,999 | 0,998 |
| 700 | 0,997 | 0,993 |
| 660 | 0,995 | 0,987 |
| 620 | 0,993 | 0,983 |
| 580 | 0,991 | 0,977 |
| 546 | 0,986 | 0,966 |
| 500 | 0,973 | 0,934 |
| 460 | 0,929 | 0,832 |
| 436 | 0,822 | 0,612 |
| 420 | 0,657 | 0,350 |
| 405 | 0,382 | 0,090 |
| 400 | 0,276 | 0,040 |
| 390 | 0,090 | |
| 380 | | |
| 370 | | |
| 365 | | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2355 |
| $P_{C,s}$ | 0,4930 |
| $P_{d,C}$ | 0,2946 |
| $P_{e,d}$ | 0,2370 |
| $P_{g,F}$ | 0,5803 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,2324 |
| $P'_{C',s}$ | 0,5322 |
| $P'_{d,C'}$ | 0,2451 |
| $P'_{e,d}$ | 0,2339 |
| $P'_{g,F'}$ | 0,5139 |
| $P'_{i,h}$ | |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | -0,0056 |
| $\Delta P_{C,s}$ | -0,0028 |
| $\Delta P_{F,e}$ | 0,0009 |
| $\Delta P_{g,F}$ | 0,0036 |
| $\Delta P_{i,g}$ | |

| Konstanten der Dispersionsformel | |
|-------------------------------------|--------------|
| B_1 | 1,34611327 |
| B_2 | 0,142428018 |
| B_3 | 0,900477176 |
| C_1 | 0,0097174385 |
| C_2 | 0,0501911619 |
| C_3 | 111,959703 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 10,7 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 11,4 |
| $T_g [^\circ C]$ | 474 |
| $T_{10}^{13,0} [^\circ C]$ | 462 |
| $T_{10}^{7,6} [^\circ C]$ | 606 |
| $c_p [J/(g \cdot K)]$ | 0,580 |
| $\lambda [W/(m \cdot K)]$ | 0,750 |
| $\rho [g/cm^3]$ | 3,30 |
| $E [10^3 N/mm^2]$ | 56 |
| μ | 0,242 |
| $K [10^{-6} mm^2/N]$ | 2,80 |
| $HK_{0,1/20}$ | 410 |
| HG | 2 |
| CR | 3 |
| FR | 2 |
| SR | 3,4 |
| AR | 2,2 |
| PR | 3 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $-8,15 \cdot 10^{-6}$ |
| D_1 | $1,34 \cdot 10^{-8}$ |
| D_2 | $-9,22 \cdot 10^{-12}$ |
| E_0 | $8,57 \cdot 10^{-7}$ |
| E_1 | $8,26 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,243 |

| Farbcode | |
|--------------------------------|-------|
| λ_{80}/λ_5 | 45/39 |
| (*= λ_{70}/λ_5) | |

| Bemerkungen | |
|--------------------------|--|
| strahlenresistentes Glas | |

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|---------------------------------------|------|-----|---------------------------------------|------|------|
| | $\Delta n_{rel}/\Delta T [10^{-6}/K]$ | | | $\Delta n_{abs}/\Delta T [10^{-6}/K]$ | | |
| $[^\circ C]$ | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | -2,1 | -0,9 | 0,4 | -4,2 | -3,1 | -1,8 |
| +20/ +40 | -2,0 | -0,7 | 0,8 | -3,3 | -2,1 | -0,6 |
| +60/ +80 | -1,8 | -0,3 | 1,3 | -2,8 | -1,4 | 0,1 |

N-BAF3
583466.279

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,58272$ | $v_d = 46,64$ | $n_F - n_C = 0,012495$ |
| $n_e = 1,58569$ | $v_e = 46,35$ | $n_{F'} - n_{C'} = 0,012637$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,54998 |
| $n_{1970,1}$ | 1970,1 | 1,55574 |
| $n_{1529,6}$ | 1529,6 | 1,56192 |
| $n_{1060,0}$ | 1060,0 | 1,56850 |
| n_t | 1014,0 | 1,56927 |
| n_s | 852,1 | 1,57254 |
| n_r | 706,5 | 1,57689 |
| n_C | 656,3 | 1,57899 |
| $n_{C'}$ | 643,8 | 1,57958 |
| $n_{632,8}$ | 632,8 | 1,58013 |
| n_D | 589,3 | 1,58261 |
| n_d | 587,6 | 1,58272 |
| n_e | 546,1 | 1,58569 |
| n_F | 486,1 | 1,59149 |
| $n_{F'}$ | 480,0 | 1,59222 |
| n_g | 435,8 | 1,59857 |
| n_h | 404,7 | 1,60463 |
| 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 | |

| Konstanten der Dispersionsformel | |
|----------------------------------|---------------|
| B_1 | 1,34859634 |
| B_2 | 0,10764424 |
| B_3 | 1,13207084 |
| C_1 | 0,00871492932 |
| C_2 | 0,0478406436 |
| C_3 | 112,936116 |

| Konstanten der Formel für dn/dT | |
|-----------------------------------|------------------------|
| D_0 | $1,40 \cdot 10^{-6}$ |
| D_1 | $1,24 \cdot 10^{-8}$ |
| D_2 | $-9,39 \cdot 10^{-12}$ |
| E_0 | $5,91 \cdot 10^{-7}$ |
| E_1 | $7,44 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,235 |

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

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,733 | 0,460 |
| 2325 | 0,847 | 0,660 |
| 1970 | 0,954 | 0,890 |
| 1530 | 0,992 | 0,980 |
| 1060 | 0,997 | 0,993 |
| 700 | 0,998 | 0,994 |
| 660 | 0,997 | 0,992 |
| 620 | 0,996 | 0,991 |
| 580 | 0,997 | 0,993 |
| 546 | 0,996 | 0,991 |
| 500 | 0,994 | 0,985 |
| 460 | 0,990 | 0,975 |
| 436 | 0,986 | 0,965 |
| 420 | 0,981 | 0,952 |
| 405 | 0,967 | 0,920 |
| 400 | 0,959 | 0,900 |
| 390 | 0,924 | 0,820 |
| 380 | 0,852 | 0,670 |
| 370 | 0,693 | 0,400 |
| 365 | 0,565 | 0,240 |
| 350 | 0,063 | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Farbcode | |
|----------------------------------|-------|
| λ_{80} / λ_5 | 39/35 |
| (*= λ_{70} / λ_5) | |

| Bemerkungen | |
|-------------|--|
| Anfrageglas | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2616 |
| $P_{C,s}$ | 0,5160 |
| $P_{d,C}$ | 0,2987 |
| $P_{e,d}$ | 0,2375 |
| $P_{g,F}$ | 0,5669 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,2587 |
| $P'_{C',s}$ | 0,5569 |
| $P'_{d,C'}$ | 0,2487 |
| $P'_{e,d}$ | 0,2348 |
| $P'_{g,F'}$ | 0,5026 |
| $P'_{i,h}$ | |

| Abweichungen rel. Teildispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0114 |
| $\Delta P_{C,s}$ | 0,0044 |
| $\Delta P_{F,e}$ | -0,0001 |
| $\Delta P_{g,F}$ | 0,0015 |
| $\Delta P_{i,g}$ | |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6} / K]$ | 7,2 |
| $\alpha_{+20/+300^\circ C} [10^{-6} / K]$ | 8,2 |
| $T_g [^\circ C]$ | 583 |
| $T_{10}^{13,0} [^\circ C]$ | 573 |
| $T_{10}^{7,6} [^\circ C]$ | 714 |
| $c_p [J/(g \cdot K)]$ | 0,760 |
| $\lambda [W/(m \cdot K)]$ | 1,040 |
| $\rho [g/cm^3]$ | 2,79 |
| $E [10^3 N/mm^2]$ | 82 |
| μ | 0,226 |
| $K [10^{-6} mm^2/N]$ | 2,73 |
| $HK_{0,1/20}$ | 560 |
| HG | 2 |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1 |
| PR | 1 |

N-LAF3 717480.414

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,71700$ | $v_d = 47,96$ | $n_F - n_C = 0,014950$ |
| $n_e = 1,72055$ | $v_e = 47,68$ | $n_{F'} - n_{C'} = 0,015112$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,68061 |
| $n_{1970,1}$ | 1970,1 | 1,68653 |
| $n_{1529,6}$ | 1529,6 | 1,69297 |
| $n_{1060,0}$ | 1060,0 | 1,70017 |
| n_t | 1014,0 | 1,70105 |
| n_s | 852,1 | 1,70485 |
| n_r | 706,5 | 1,71001 |
| n_C | 656,3 | 1,71252 |
| $n_{C'}$ | 643,8 | 1,71323 |
| $n_{632,8}$ | 632,8 | 1,71389 |
| n_D | 589,3 | 1,71687 |
| n_d | 587,6 | 1,71700 |
| n_e | 546,1 | 1,72055 |
| n_F | 486,1 | 1,72747 |
| $n_{F'}$ | 480,0 | 1,72834 |
| n_g | 435,8 | 1,73585 |
| n_h | 404,7 | 1,74293 |
| n_i | 365,0 | 1,75530 |
| $n_{334,1}$ | 334,1 | |
| $n_{312,6}$ | 312,6 | |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,626 | 0,310 |
| 2325 | 0,804 | 0,580 |
| 1970 | 0,950 | 0,880 |
| 1530 | 0,992 | 0,980 |
| 1060 | 0,997 | 0,993 |
| 700 | 0,997 | 0,993 |
| 660 | 0,997 | 0,993 |
| 620 | 0,997 | 0,993 |
| 580 | 0,997 | 0,993 |
| 546 | 0,997 | 0,993 |
| 500 | 0,994 | 0,985 |
| 460 | 0,987 | 0,968 |
| 436 | 0,982 | 0,955 |
| 420 | 0,976 | 0,940 |
| 405 | 0,963 | 0,910 |
| 400 | 0,954 | 0,890 |
| 390 | 0,928 | 0,830 |
| 380 | 0,877 | 0,720 |
| 370 | 0,782 | 0,540 |
| 365 | 0,707 | 0,420 |
| 350 | 0,314 | 0,060 |
| 334 | 0,006 | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2538 |
| $P_{C,s}$ | 0,5132 |
| $P_{d,C}$ | 0,2994 |
| $P_{e,d}$ | 0,2379 |
| $P_{g,F}$ | 0,5603 |
| $P_{i,h}$ | 0,8274 |
| $P'_{s,t}$ | 0,2511 |
| $P'_{C',s}$ | 0,5545 |
| $P'_{d,C'}$ | 0,2494 |
| $P'_{e,d}$ | 0,2353 |
| $P'_{g,F'}$ | 0,4967 |
| $P'_{i,h}$ | 0,8185 |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | -0,0054 |
| $\Delta P_{C,s}$ | -0,0015 |
| $\Delta P_{F,e}$ | -0,0005 |
| $\Delta P_{g,F}$ | -0,0028 |
| $\Delta P_{i,g}$ | -0,0210 |

| Konstanten der Dispersionsformel | |
|-------------------------------------|---------------|
| B_1 | 1,73155854 |
| B_2 | 0,150874455 |
| B_3 | 1,06586596 |
| C_1 | 0,00953833914 |
| C_2 | 0,0407887211 |
| C_3 | 98,0758545 |

| Sonstige Eigenschaften | |
|--|-------|
| $\alpha_{-30/+70^\circ\text{C}} [10^{-6}/\text{K}]$ | 7,6 |
| $\alpha_{+20/+300^\circ\text{C}} [10^{-6}/\text{K}]$ | 8,7 |
| $T_g [^\circ\text{C}]$ | 646 |
| $T_{10}^{13,0} [^\circ\text{C}]$ | 640 |
| $T_{10}^{7,6} [^\circ\text{C}]$ | 740 |
| $c_p [\text{J}/(\text{g}\cdot\text{K})]$ | |
| $\lambda [\text{W}/(\text{m}\cdot\text{K})]$ | |
| $\rho [\text{g}/\text{cm}^3]$ | 4,14 |
| $E [10^3 \text{N}/\text{mm}^2]$ | 95 |
| μ | 0,286 |
| $K [10^{-6} \text{mm}^2/\text{N}]$ | 1,53 |
| $HK_{0,1/20}$ | 580 |
| HG | 5 |
| CR | 2 |
| FR | 3 |
| SR | 52,3 |
| AR | 1,2 |
| PR | 3,3 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $-2,35 \cdot 10^{-6}$ |
| D_1 | $1,07 \cdot 10^{-8}$ |
| D_2 | $-9,38 \cdot 10^{-12}$ |
| E_0 | $5,72 \cdot 10^{-7}$ |
| E_1 | $6,01 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu\text{m}]$ | 0,22 |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 39/34 |
| (* = λ_{70}/λ_5) | |

| Bemerkungen | |
|-------------|--|
| Anfrageglas | |

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|--|-----|-----|--|------|-----|
| [$^\circ\text{C}$] | $\Delta n_{rel}/\Delta T [10^{-6}/\text{K}]$ | | | $\Delta n_{abs}/\Delta T [10^{-6}/\text{K}]$ | | |
| | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | 0,6 | 1,5 | 2,5 | -1,7 | -0,8 | 0,1 |
| +20/ +40 | 0,6 | 1,6 | 2,7 | -0,9 | 0,1 | 1,2 |
| +60/ +80 | 0,7 | 1,8 | 3,0 | -0,4 | 0,7 | 1,8 |

N-LAF36
800424.443

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,79952$ | $v_d = 42,37$ | $n_F - n_C = 0,018871$ |
| $n_e = 1,80400$ | $v_e = 42,12$ | $n_{F'} - n_{C'} = 0,019090$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,75555 |
| $n_{1970,1}$ | 1970,1 | 1,76246 |
| $n_{1529,6}$ | 1529,6 | 1,77001 |
| $n_{1060,0}$ | 1060,0 | 1,77862 |
| n_t | 1014,0 | 1,77969 |
| n_s | 852,1 | 1,78435 |
| n_r | 706,5 | 1,79076 |
| n_C | 656,3 | 1,79390 |
| $n_{C'}$ | 643,8 | 1,79478 |
| $n_{632,8}$ | 632,8 | 1,79561 |
| n_D | 589,3 | 1,79935 |
| n_d | 587,6 | 1,79952 |
| n_e | 546,1 | 1,80400 |
| n_F | 486,1 | 1,81277 |
| $n_{F'}$ | 480,0 | 1,81387 |
| n_g | 435,8 | 1,82345 |
| n_h | 404,7 | 1,83252 |
| n_i | 365,0 | 1,84848 |
| $n_{334,1}$ | 334,1 | |
| $n_{312,6}$ | 312,6 | |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Konstanten der Dispersionsformel | |
|----------------------------------|---------------|
| B_1 | 1,85744228 |
| B_2 | 0,294098729 |
| B_3 | 1,16615417 |
| C_1 | 0,00982397191 |
| C_2 | 0,0384309138 |
| C_3 | 89,3984634 |

| Konstanten der Formel für dn/dT | |
|-----------------------------------|------------------------|
| D_0 | $8,72 \cdot 10^{-6}$ |
| D_1 | $1,12 \cdot 10^{-8}$ |
| D_2 | $-1,38 \cdot 10^{-11}$ |
| E_0 | $7,81 \cdot 10^{-7}$ |
| E_1 | $9,48 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,212 |

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|---|-----|------|---|-----|------|
| | $\Delta n_{rel} / \Delta T [10^{-6} / K]$ | | | $\Delta n_{abs} / \Delta T [10^{-6} / K]$ | | |
| [°C] | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | 7,3 | 8,8 | 10,3 | 4,9 | 6,4 | 7,8 |
| +20/ +40 | 7,4 | 9,1 | 10,8 | 5,9 | 7,6 | 9,2 |
| +60/ +80 | 7,6 | 9,5 | 11,3 | 6,4 | 8,2 | 10,1 |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,480 | 0,160 |
| 2325 | 0,770 | 0,520 |
| 1970 | 0,950 | 0,880 |
| 1530 | 0,992 | 0,980 |
| 1060 | 0,998 | 0,994 |
| 700 | 0,998 | 0,994 |
| 660 | 0,998 | 0,994 |
| 620 | 0,997 | 0,992 |
| 580 | 0,997 | 0,992 |
| 546 | 0,996 | 0,990 |
| 500 | 0,992 | 0,980 |
| 460 | 0,985 | 0,962 |
| 436 | 0,976 | 0,940 |
| 420 | 0,967 | 0,920 |
| 405 | 0,954 | 0,890 |
| 400 | 0,946 | 0,870 |
| 390 | 0,919 | 0,810 |
| 380 | 0,872 | 0,710 |
| 370 | 0,793 | 0,560 |
| 365 | 0,733 | 0,460 |
| 350 | 0,455 | 0,140 |
| 334 | 0,068 | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Farbcode | |
|-----------------------------------|-------|
| λ_{80} / λ_5 | 40/33 |
| (* = λ_{70} / λ_5) | |

| Bemerkungen |
|-------------|
| Anfrageglas |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2467 |
| $P_{C,s}$ | 0,5059 |
| $P_{d,C}$ | 0,2979 |
| $P_{e,d}$ | 0,2377 |
| $P_{g,F}$ | 0,5659 |
| $P_{i,h}$ | 0,8455 |
| $P'_{s,t}$ | 0,2439 |
| $P'_{C,s}$ | 0,5465 |
| $P'_{d,C'}$ | 0,2480 |
| $P'_{e,d}$ | 0,2349 |
| $P'_{g,F'}$ | 0,5014 |
| $P'_{i,h}$ | 0,8358 |

| Abweichungen rel. Teildispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0067 |
| $\Delta P_{C,s}$ | 0,0043 |
| $\Delta P_{F,e}$ | -0,0016 |
| $\Delta P_{g,F}$ | -0,0067 |
| $\Delta P_{i,g}$ | -0,0424 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6} / K]$ | 5,7 |
| $\alpha_{+20/+300^\circ C} [10^{-6} / K]$ | 6,8 |
| $T_g [^\circ C]$ | 579 |
| $T_{10}^{13,0} [^\circ C]$ | 582 |
| $T_{10}^{7,6} [^\circ C]$ | 670 |
| $c_p [J/(g \cdot K)]$ | 0,540 |
| $\lambda [W/(m \cdot K)]$ | 0,790 |
| $\rho [g/cm^3]$ | 4,43 |
| $E [10^3 N/mm^2]$ | 110 |
| μ | 0,305 |
| $K [10^{-6} mm^2/N]$ | 2,25 |
| $HK_{0,1/20}$ | 680 |
| HG | 1 |
| CR | 1 |
| FR | 2 |
| SR | 52,3 |
| AR | 1 |
| PR | 3,3 |

N-LAK33A
754523.422

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,75393$ | $v_d = 52,27$ | $n_F - n_C = 0,014424$ |
| $n_e = 1,75737$ | $v_e = 52,04$ | $n_{F'} - n_{C'} = 0,014554$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,71278 |
| $n_{1970,1}$ | 1970,1 | 1,72047 |
| $n_{1529,6}$ | 1529,6 | 1,72855 |
| $n_{1060,0}$ | 1060,0 | 1,73690 |
| n_t | 1014,0 | 1,73786 |
| n_s | 852,1 | 1,74186 |
| n_r | 706,5 | 1,74707 |
| n_C | 656,3 | 1,74956 |
| $n_{C'}$ | 643,8 | 1,75025 |
| $n_{632,8}$ | 632,8 | 1,75090 |
| n_D | 589,3 | 1,75380 |
| n_d | 587,6 | 1,75393 |
| n_e | 546,1 | 1,75737 |
| n_F | 486,1 | 1,76398 |
| $n_{F'}$ | 480,0 | 1,76481 |
| n_g | 435,8 | 1,77187 |
| n_h | 404,7 | 1,77845 |
| n_i | 365,0 | 1,78972 |
| $n_{334,1}$ | 334,1 | 1,80195 |
| $n_{312,6}$ | 312,6 | 1,81325 |
| $n_{296,7}$ | 296,7 | 1,82361 |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Konstanten der Dispersionsformel | |
|----------------------------------|---------------|
| B_1 | 1,44116999 |
| B_2 | 0,571749501 |
| B_3 | 1,16605226 |
| C_1 | 0,00680933877 |
| C_2 | 0,0222291824 |
| C_3 | 80,9379555 |

| Konstanten der Formel für dn/dT | |
|-----------------------------------|------------------------|
| D_0 | $2,63 \cdot 10^{-6}$ |
| D_1 | $1,11 \cdot 10^{-8}$ |
| D_2 | $-3,92 \cdot 10^{-12}$ |
| E_0 | $5,02 \cdot 10^{-7}$ |
| E_1 | $5,08 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,188 |

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|---|-----|-----|---|-----|-----|
| | $\Delta n_{rel} / \Delta T [10^{-6} / K]$ | | | $\Delta n_{abs} / \Delta T [10^{-6} / K]$ | | |
| [°C] | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | 3,4 | 4,3 | 5,1 | 1,1 | 1,9 | 2,7 |
| +20/ +40 | 3,4 | 4,4 | 5,3 | 1,9 | 2,9 | 3,7 |
| +60/ +80 | 3,6 | 4,7 | 5,6 | 2,4 | 3,5 | 4,4 |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,398 | 0,100 |
| 2325 | 0,686 | 0,390 |
| 1970 | 0,937 | 0,850 |
| 1530 | 0,990 | 0,975 |
| 1060 | 0,998 | 0,995 |
| 700 | 0,998 | 0,996 |
| 660 | 0,998 | 0,995 |
| 620 | 0,998 | 0,994 |
| 580 | 0,998 | 0,995 |
| 546 | 0,998 | 0,996 |
| 500 | 0,998 | 0,994 |
| 460 | 0,994 | 0,986 |
| 436 | 0,991 | 0,978 |
| 420 | 0,988 | 0,970 |
| 405 | 0,981 | 0,953 |
| 400 | 0,976 | 0,940 |
| 390 | 0,967 | 0,920 |
| 380 | 0,950 | 0,880 |
| 370 | 0,924 | 0,820 |
| 365 | 0,905 | 0,780 |
| 350 | 0,804 | 0,580 |
| 334 | 0,601 | 0,280 |
| 320 | 0,336 | 0,060 |
| 310 | 0,160 | |
| 300 | 0,053 | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Farbcode | |
|-----------------------------------|-------|
| λ_{80} / λ_5 | 38/30 |
| (* = λ_{70} / λ_5) | |

Bemerkungen
will become Anfrageglas as of Jan 2015, nicht für Neudesigns geeignet

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2770 |
| $P_{C,s}$ | 0,5338 |
| $P_{d,C}$ | 0,3032 |
| $P_{e,d}$ | 0,2383 |
| $P_{g,F}$ | 0,5473 |
| $P_{i,h}$ | 0,7814 |
| $P'_{s,t}$ | 0,2746 |
| $P'_{C',s}$ | 0,5769 |
| $P'_{d,C'}$ | 0,2527 |
| $P'_{e,d}$ | 0,2362 |
| $P'_{g,F'}$ | 0,4857 |
| $P'_{i,h}$ | 0,7744 |

| Abweichungen rel. Teildispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0180 |
| $\Delta P_{C,s}$ | 0,0091 |
| $\Delta P_{F,e}$ | -0,0024 |
| $\Delta P_{g,F}$ | -0,0086 |
| $\Delta P_{i,g}$ | -0,0484 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6} / K]$ | 5,8 |
| $\alpha_{+20/+300^\circ C} [10^{-6} / K]$ | 7,0 |
| $T_g [^\circ C]$ | 669 |
| $T_{10}^{13,0} [^\circ C]$ | 667 |
| $T_{10}^{7,6} [^\circ C]$ | 744 |
| $c_p [J/(g \cdot K)]$ | 0,550 |
| $\lambda [W/(m \cdot K)]$ | 0,810 |
| $\rho [g/cm^3]$ | 4,22 |
| $E [10^3 N/mm^2]$ | 121 |
| μ | 0,292 |
| $K [10^{-6} mm^2/N]$ | 1,49 |
| $HK_{0,1/20}$ | 740 |
| HG | 2 |
| CR | 1 |
| FR | 1 |
| SR | 51 |
| AR | 1 |
| PR | 2 |

N-SF19
667331.290

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,66679$ | $v_d = 33,12$ | $n_F - n_C = 0,020131$ |
| $n_e = 1,67154$ | $v_e = 32,86$ | $n_{F'} - n_{C'} = 0,020435$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,62384 |
| $n_{1970,1}$ | 1970,1 | 1,63018 |
| $n_{1529,6}$ | 1529,6 | 1,63723 |
| $n_{1060,0}$ | 1060,0 | 1,64552 |
| n_t | 1014,0 | 1,64657 |
| n_s | 852,1 | 1,65120 |
| n_r | 706,5 | 1,65769 |
| n_C | 656,3 | 1,66092 |
| $n_{C'}$ | 643,8 | 1,66184 |
| $n_{632,8}$ | 632,8 | 1,66271 |
| n_D | 589,3 | 1,66661 |
| n_d | 587,6 | 1,66679 |
| n_e | 546,1 | 1,67154 |
| n_F | 486,1 | 1,68106 |
| $n_{F'}$ | 480,0 | 1,68228 |
| n_g | 435,8 | 1,69309 |
| n_h | 404,7 | 1,70377 |
| 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 τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,720 | 0,440 |
| 2325 | 0,826 | 0,620 |
| 1970 | 0,954 | 0,890 |
| 1530 | 0,988 | 0,970 |
| 1060 | 0,996 | 0,989 |
| 700 | 0,994 | 0,985 |
| 660 | 0,992 | 0,980 |
| 620 | 0,991 | 0,978 |
| 580 | 0,992 | 0,980 |
| 546 | 0,991 | 0,977 |
| 500 | 0,984 | 0,960 |
| 460 | 0,974 | 0,937 |
| 436 | 0,965 | 0,915 |
| 420 | 0,950 | 0,880 |
| 405 | 0,919 | 0,810 |
| 400 | 0,901 | 0,770 |
| 390 | 0,826 | 0,620 |
| 380 | 0,642 | 0,330 |
| 370 | 0,302 | 0,050 |
| 365 | 0,130 | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2299 |
| $P_{C,s}$ | 0,4831 |
| $P_{d,C}$ | 0,2913 |
| $P_{e,d}$ | 0,2362 |
| $P_{g,F}$ | 0,5976 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,2265 |
| $P'_{C',s}$ | 0,5208 |
| $P'_{d,C'}$ | 0,2421 |
| $P'_{e,d}$ | 0,2327 |
| $P'_{g,F'}$ | 0,5289 |
| $P'_{i,h}$ | |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|--------|
| $\Delta P_{C,t}$ | 0,0109 |
| $\Delta P_{C,s}$ | 0,0030 |
| $\Delta P_{F,e}$ | 0,0015 |
| $\Delta P_{g,F}$ | 0,0095 |
| $\Delta P_{i,g}$ | |

| Konstanten der Dispersionsformel | |
|-------------------------------------|--------------|
| B_1 | 1,52005444 |
| B_2 | 0,17573947 |
| B_3 | 1,43623424 |
| C_1 | 0,01096144 |
| C_2 | 0,0593248486 |
| C_3 | 126,795151 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 7,2 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 8,3 |
| $T_g [^\circ C]$ | 598 |
| $T_{10}^{13,0} [^\circ C]$ | 585 |
| $T_{10}^{7,6} [^\circ C]$ | 707 |
| $c_p [J/(g \cdot K)]$ | 0,750 |
| $\lambda [W/(m \cdot K)]$ | 1,020 |
| $\rho [g/cm^3]$ | 2,90 |
| $E [10^3 N/mm^2]$ | 88 |
| μ | 0,231 |
| $K [10^{-6} mm^2/N]$ | 2,93 |
| $HK_{0,1/20}$ | 630 |
| HG | 3 |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1,2 |
| PR | 1 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $1,32 \cdot 10^{-6}$ |
| D_1 | $1,22 \cdot 10^{-8}$ |
| D_2 | $-1,36 \cdot 10^{-11}$ |
| E_0 | $7,64 \cdot 10^{-7}$ |
| E_1 | $1,09 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu m]$ | 0,279 |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 40/36 |
| (* = λ_{70}/λ_5) | |

| Bemerkungen | |
|-------------|--|
| Anfrageglas | |

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

N-SF56 785261.328

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,78470$ | $v_d = 26,10$ | $n_F - n_C = 0,030071$ |
| $n_e = 1,79179$ | $v_e = 25,89$ | $n_{F'} - n_{C'} = 0,030587$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,73010 |
| $n_{1970,1}$ | 1970,1 | 1,73664 |
| $n_{1529,6}$ | 1529,6 | 1,74431 |
| $n_{1060,0}$ | 1060,0 | 1,75442 |
| n_t | 1014,0 | 1,75581 |
| n_s | 852,1 | 1,76213 |
| n_r | 706,5 | 1,77137 |
| n_C | 656,3 | 1,77607 |
| $n_{C'}$ | 643,8 | 1,77741 |
| $n_{632,8}$ | 632,8 | 1,77868 |
| n_D | 589,3 | 1,78444 |
| n_d | 587,6 | 1,78470 |
| n_e | 546,1 | 1,79179 |
| n_F | 486,1 | 1,80614 |
| $n_{F'}$ | 480,0 | 1,80800 |
| n_g | 435,8 | 1,82460 |
| n_h | 404,7 | 1,84126 |
| 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 τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,810 | 0,590 |
| 2325 | 0,857 | 0,680 |
| 1970 | 0,959 | 0,900 |
| 1530 | 0,992 | 0,981 |
| 1060 | 0,998 | 0,996 |
| 700 | 0,994 | 0,986 |
| 660 | 0,992 | 0,981 |
| 620 | 0,992 | 0,981 |
| 580 | 0,993 | 0,983 |
| 546 | 0,990 | 0,976 |
| 500 | 0,980 | 0,950 |
| 460 | 0,963 | 0,910 |
| 436 | 0,941 | 0,860 |
| 420 | 0,905 | 0,780 |
| 405 | 0,837 | 0,640 |
| 400 | 0,799 | 0,570 |
| 390 | 0,672 | 0,370 |
| 380 | 0,442 | 0,130 |
| 370 | 0,109 | |
| 365 | 0,020 | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2101 |
| $P_{C,s}$ | 0,4635 |
| $P_{d,C}$ | 0,2872 |
| $P_{e,d}$ | 0,2356 |
| $P_{g,F}$ | 0,6139 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,2065 |
| $P'_{C',s}$ | 0,4996 |
| $P'_{d,C'}$ | 0,2384 |
| $P'_{e,d}$ | 0,2316 |
| $P'_{g,F'}$ | 0,5427 |
| $P'_{i,h}$ | |

Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden"

| | |
|------------------|---------|
| $\Delta P_{C,t}$ | 0,0048 |
| $\Delta P_{C,s}$ | -0,0002 |
| $\Delta P_{F,e}$ | 0,0026 |
| $\Delta P_{g,F}$ | 0,0140 |
| $\Delta P_{i,g}$ | |

| Konstanten der Dispersionsformel | |
|-------------------------------------|--------------|
| B_1 | 1,73562085 |
| B_2 | 0,317487012 |
| B_3 | 1,95398203 |
| C_1 | 0,0129624742 |
| C_2 | 0,0612884288 |
| C_3 | 161,559441 |

Sonstige Eigenschaften

| | |
|--|-------|
| $\alpha_{-30/+70^\circ\text{C}} [10^{-6}/\text{K}]$ | 8,7 |
| $\alpha_{+20/+300^\circ\text{C}} [10^{-6}/\text{K}]$ | 10,0 |
| $T_g [^\circ\text{C}]$ | 592 |
| $T_{10}^{13,0} [^\circ\text{C}]$ | 585 |
| $T_{10}^{7,6} [^\circ\text{C}]$ | 691 |
| $c_p [\text{J}/(\text{g}\cdot\text{K})]$ | 0,700 |
| $\lambda [\text{W}/(\text{m}\cdot\text{K})]$ | 0,940 |
| $\rho [\text{g}/\text{cm}^3]$ | 3,28 |
| $E [10^3 \text{N}/\text{mm}^2]$ | 91 |
| μ | 0,255 |
| $K [10^{-6} \text{mm}^2/\text{N}]$ | 2,87 |
| $HK_{0,1/20}$ | 560 |
| HG | 5 |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1,3 |
| PR | 1 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $-4,13 \cdot 10^{-6}$ |
| D_1 | $7,65 \cdot 10^{-9}$ |
| D_2 | $-1,12 \cdot 10^{-11}$ |
| E_0 | $9,90 \cdot 10^{-7}$ |
| E_1 | $1,57 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu\text{m}]$ | 0,287 |

| Farbcode | |
|--------------------------------|-------|
| λ_{80}/λ_5 | 44/37 |
| (*= λ_{70}/λ_5) | |

| Bemerkungen | |
|-------------|--|
| Anfrageglas | |

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|---|-----|-----|---|------|-----|
| [$^\circ\text{C}$] | $\Delta n_{\text{rel}}/\Delta T [10^{-6}/\text{K}]$ | | | $\Delta n_{\text{abs}}/\Delta T [10^{-6}/\text{K}]$ | | |
| | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | -0,1 | 1,7 | 4,3 | -2,5 | -0,7 | 1,8 |
| +20/ +40 | -0,3 | 2,0 | 5,1 | -1,8 | 0,5 | 3,5 |
| +60/ +80 | -0,2 | 2,4 | 5,9 | -1,4 | 1,2 | 4,6 |

N-SF64 706302.299

| | | |
|-----------------|---------------|--------------------------|
| $n_d = 1,70591$ | $v_d = 30,23$ | $n_F - n_C = 0,023350$ |
| $n_e = 1,71142$ | $v_e = 29,99$ | $n_F' - n_C' = 0,023720$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,65993 |
| $n_{1970,1}$ | 1970,1 | 1,66607 |
| $n_{1529,6}$ | 1529,6 | 1,67306 |
| $n_{1060,0}$ | 1060,0 | 1,68176 |
| n_t | 1014,0 | 1,68291 |
| n_s | 852,1 | 1,68806 |
| n_r | 706,5 | 1,69544 |
| n_C | 656,3 | 1,69914 |
| $n_{C'}$ | 643,8 | 1,70020 |
| $n_{632,8}$ | 632,8 | 1,70119 |
| n_D | 589,3 | 1,70571 |
| n_d | 587,6 | 1,70591 |
| n_e | 546,1 | 1,71142 |
| n_F | 486,1 | 1,72249 |
| $n_{F'}$ | 480,0 | 1,72392 |
| n_g | 435,8 | 1,73657 |
| n_h | 404,7 | 1,74912 |
| 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 τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,770 | 0,520 |
| 2325 | 0,837 | 0,640 |
| 1970 | 0,950 | 0,880 |
| 1530 | 0,992 | 0,979 |
| 1060 | 0,998 | 0,996 |
| 700 | 0,994 | 0,985 |
| 660 | 0,992 | 0,980 |
| 620 | 0,992 | 0,981 |
| 580 | 0,994 | 0,984 |
| 546 | 0,993 | 0,982 |
| 500 | 0,984 | 0,961 |
| 460 | 0,971 | 0,930 |
| 436 | 0,957 | 0,895 |
| 420 | 0,934 | 0,843 |
| 405 | 0,882 | 0,730 |
| 400 | 0,852 | 0,670 |
| 390 | 0,746 | 0,480 |
| 380 | 0,546 | 0,220 |
| 370 | 0,209 | 0,020 |
| 365 | 0,078 | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2204 |
| $P_{C,s}$ | 0,4746 |
| $P_{d,C}$ | 0,2898 |
| $P_{e,d}$ | 0,2361 |
| $P_{g,F}$ | 0,6028 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,2169 |
| $P'_{C',s}$ | 0,5117 |
| $P'_{d,C'}$ | 0,2407 |
| $P'_{e,d}$ | 0,2324 |
| $P'_{g,F'}$ | 0,5333 |
| $P'_{i,h}$ | |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|--------|
| $\Delta P_{C,t}$ | 0,0066 |
| $\Delta P_{C,s}$ | 0,0012 |
| $\Delta P_{F,e}$ | 0,0017 |
| $\Delta P_{g,F}$ | 0,0099 |
| $\Delta P_{i,g}$ | |

| Konstanten der Dispersionsformel | |
|-------------------------------------|--------------|
| B_1 | 1,59163762 |
| B_2 | 0,219908428 |
| B_3 | 1,46929315 |
| C_1 | 0,0118623434 |
| C_2 | 0,0594585499 |
| C_3 | 133,310762 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 8,5 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 9,8 |
| $T_g [^\circ C]$ | 572 |
| $T_{10}^{13,0} [^\circ C]$ | 576 |
| $T_{10}^{7,6} [^\circ C]$ | 688 |
| $c_p [J/(g \cdot K)]$ | 0,750 |
| $\lambda [W/(m \cdot K)]$ | 0,980 |
| $\rho [g/cm^3]$ | 2,99 |
| $E [10^3 N/mm^2]$ | 88 |
| μ | 0,245 |
| $K [10^{-6} mm^2/N]$ | 2,95 |
| $HK_{0,1/20}$ | 620 |
| HG | 4 |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1,2 |
| PR | 1 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $-2,06 \cdot 10^{-6}$ |
| D_1 | $9,78 \cdot 10^{-9}$ |
| D_2 | $-1,67 \cdot 10^{-11}$ |
| E_0 | $8,67 \cdot 10^{-7}$ |
| E_1 | $1,23 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu m]$ | 0,279 |

| Farbcode | |
|---------------------------------|-------|
| λ_{80}/λ_5 | 42/37 |
| (* = λ_{70}/λ_5) | |

| Bemerkungen | |
|-------------|--|
| Anfrageglas | |

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

N-SK10
623570.364

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,62278$ | $v_d = 56,98$ | $n_F - n_C = 0,010929$ |
| $n_e = 1,62539$ | $v_e = 56,70$ | $n_{F'} - n_{C'} = 0,011029$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,59310 |
| $n_{1970,1}$ | 1970,1 | 1,59837 |
| $n_{1529,6}$ | 1529,6 | 1,60400 |
| $n_{1060,0}$ | 1060,0 | 1,61000 |
| n_t | 1014,0 | 1,61071 |
| n_s | 852,1 | 1,61367 |
| n_r | 706,5 | 1,61759 |
| n_C | 656,3 | 1,61947 |
| $n_{C'}$ | 643,8 | 1,62000 |
| $n_{632,8}$ | 632,8 | 1,62049 |
| n_D | 589,3 | 1,62268 |
| n_d | 587,6 | 1,62278 |
| n_e | 546,1 | 1,62539 |
| n_F | 486,1 | 1,63040 |
| $n_{F'}$ | 480,0 | 1,63102 |
| n_g | 435,8 | 1,63638 |
| n_h | 404,7 | 1,64137 |
| n_i | 365,0 | 1,64989 |
| $n_{334,1}$ | 334,1 | |
| $n_{312,6}$ | 312,6 | |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,733 | 0,460 |
| 2325 | 0,852 | 0,670 |
| 1970 | 0,967 | 0,920 |
| 1530 | 0,992 | 0,980 |
| 1060 | 0,998 | 0,994 |
| 700 | 0,998 | 0,995 |
| 660 | 0,997 | 0,993 |
| 620 | 0,998 | 0,994 |
| 580 | 0,998 | 0,996 |
| 546 | 0,998 | 0,996 |
| 500 | 0,998 | 0,995 |
| 460 | 0,996 | 0,990 |
| 436 | 0,995 | 0,987 |
| 420 | 0,994 | 0,985 |
| 405 | 0,990 | 0,975 |
| 400 | 0,988 | 0,970 |
| 390 | 0,980 | 0,950 |
| 380 | 0,963 | 0,910 |
| 370 | 0,933 | 0,840 |
| 365 | 0,910 | 0,790 |
| 350 | 0,770 | 0,520 |
| 334 | 0,414 | 0,110 |
| 320 | 0,068 | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2714 |
| $P_{C,s}$ | 0,5302 |
| $P_{d,C}$ | 0,3029 |
| $P_{e,d}$ | 0,2384 |
| $P_{g,F}$ | 0,5474 |
| $P_{i,h}$ | 0,7803 |
| | |
| $P'_{s,t}$ | 0,2689 |
| $P'_{C',s}$ | 0,5731 |
| $P'_{d,C'}$ | 0,2525 |
| $P'_{e,d}$ | 0,2362 |
| $P'_{g,F'}$ | 0,4857 |
| $P'_{i,h}$ | 0,7732 |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | -0,0137 |
| $\Delta P_{C,s}$ | -0,0055 |
| $\Delta P_{F,e}$ | 0,0003 |
| $\Delta P_{g,F}$ | -0,0005 |
| $\Delta P_{i,g}$ | -0,0103 |

| Konstanten der Dispersionsformel | |
|-------------------------------------|---------------|
| B_1 | 1,34972093 |
| B_2 | 0,238587973 |
| B_3 | 0,9667336 |
| C_1 | 0,00736272269 |
| C_2 | 0,0253765327 |
| C_3 | 103,502909 |

| Farbcode | |
|--------------------------------|-------|
| λ_{80}/λ_5 | 36/32 |
| (*= λ_{70}/λ_5) | |

| Bemerkungen | |
|-------------|--|
| Anfrageglas | |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $5,05 \cdot 10^{-7}$ |
| D_1 | $1,16 \cdot 10^{-8}$ |
| D_2 | $-1,53 \cdot 10^{-11}$ |
| E_0 | $4,90 \cdot 10^{-7}$ |
| E_1 | $5,10 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,183 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 6,8 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 7,8 |
| $T_g [^\circ C]$ | 633 |
| $T_{10}^{13,0} [^\circ C]$ | 635 |
| $T_{10}^{7,6} [^\circ C]$ | 758 |
| $c_p [J/(g \cdot K)]$ | 0,540 |
| $\lambda [W/(m \cdot K)]$ | 0,770 |
| | |
| $\rho [g/cm^3]$ | 3,64 |
| $E [10^3 N/mm^2]$ | 81 |
| μ | 0,266 |
| $K [10^{-6} mm^2/N]$ | 2,25 |
| $HK_{0,1/20}$ | 550 |
| HG | 3 |
| | |
| | |
| | |
| | |
| CR | 3 |
| FR | 3 |
| SR | 52,2 |
| AR | 2 |
| PR | 2,2 |

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

N-SK15 623580.362

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,62296$ | $v_d = 58,02$ | $n_F - n_C = 0,010737$ |
| $n_e = 1,62552$ | $v_e = 57,75$ | $n_{F'} - n_{C'} = 0,010832$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,59268 |
| $n_{1970,1}$ | 1970,1 | 1,59822 |
| $n_{1529,6}$ | 1529,6 | 1,60411 |
| $n_{1060,0}$ | 1060,0 | 1,61027 |
| n_t | 1014,0 | 1,61098 |
| n_s | 852,1 | 1,61396 |
| n_r | 706,5 | 1,61785 |
| n_C | 656,3 | 1,61970 |
| $n_{C'}$ | 643,8 | 1,62022 |
| $n_{632,8}$ | 632,8 | 1,62070 |
| n_D | 589,3 | 1,62286 |
| n_d | 587,6 | 1,62296 |
| n_e | 546,1 | 1,62552 |
| n_F | 486,1 | 1,63044 |
| $n_{F'}$ | 480,0 | 1,63105 |
| n_g | 435,8 | 1,63629 |
| n_h | 404,7 | 1,64116 |
| n_i | 365,0 | 1,64947 |
| $n_{334,1}$ | 334,1 | 1,65846 |
| $n_{312,6}$ | 312,6 | |
| $n_{296,7}$ | 296,7 | |
| $n_{280,4}$ | 280,4 | |
| $n_{248,3}$ | 248,3 | |

| Konstanten der Dispersionsformel | |
|----------------------------------|---------------|
| B_1 | 1,30417786 |
| B_2 | 0,28584116 |
| B_3 | 0,974781572 |
| C_1 | 0,00695051276 |
| C_2 | 0,0232023703 |
| C_3 | 99,016884 |

| Konstanten der Formel für dn/dT | |
|-----------------------------------|------------------------|
| D_0 | $4,92 \cdot 10^{-7}$ |
| D_1 | $1,20 \cdot 10^{-8}$ |
| D_2 | $-2,96 \cdot 10^{-12}$ |
| E_0 | $4,66 \cdot 10^{-7}$ |
| E_1 | $5,16 \cdot 10^{-10}$ |
| $\lambda_{TK} [\mu m]$ | 0,179 |

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

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,672 | 0,370 |
| 2325 | 0,826 | 0,620 |
| 1970 | 0,959 | 0,900 |
| 1530 | 0,990 | 0,975 |
| 1060 | 0,996 | 0,991 |
| 700 | 0,998 | 0,994 |
| 660 | 0,997 | 0,992 |
| 620 | 0,997 | 0,992 |
| 580 | 0,997 | 0,993 |
| 546 | 0,997 | 0,993 |
| 500 | 0,996 | 0,990 |
| 460 | 0,993 | 0,982 |
| 436 | 0,991 | 0,978 |
| 420 | 0,990 | 0,974 |
| 405 | 0,986 | 0,966 |
| 400 | 0,984 | 0,960 |
| 390 | 0,976 | 0,941 |
| 380 | 0,963 | 0,910 |
| 370 | 0,937 | 0,850 |
| 365 | 0,915 | 0,800 |
| 350 | 0,795 | 0,563 |
| 334 | 0,504 | 0,180 |
| 320 | 0,144 | |
| 310 | 0,010 | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Farbcode | |
|-----------------------------------|-------|
| λ_{80} / λ_5 | 36/31 |
| (* = λ_{70} / λ_5) | |

| Bemerkungen |
|-------------|
| Anfrageglas |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2770 |
| $P_{C,s}$ | 0,5348 |
| $P_{d,C}$ | 0,3036 |
| $P_{e,d}$ | 0,2384 |
| $P_{g,F}$ | 0,5453 |
| $P_{i,h}$ | 0,7742 |
| $P'_{s,t}$ | 0,2746 |
| $P'_{C',s}$ | 0,5780 |
| $P'_{d,C'}$ | 0,2531 |
| $P'_{e,d}$ | 0,2363 |
| $P'_{g,F'}$ | 0,4840 |
| $P'_{i,h}$ | 0,7674 |

| Abweichungen rel. Teildispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | -0,0084 |
| $\Delta P_{C,s}$ | -0,0033 |
| $\Delta P_{F,e}$ | 0,0001 |
| $\Delta P_{g,F}$ | -0,0009 |
| $\Delta P_{i,g}$ | -0,0102 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6} / K]$ | 6,7 |
| $\alpha_{+20/+300^\circ C} [10^{-6} / K]$ | 7,6 |
| $T_g [^\circ C]$ | 641 |
| $T_{10}^{13,0} [^\circ C]$ | 634 |
| $T_{10}^{7,6} [^\circ C]$ | 752 |
| $c_p [J/(g \cdot K)]$ | 0,570 |
| $\lambda [W/(m \cdot K)]$ | 0,770 |
| $\rho [g/cm^3]$ | 3,62 |
| $E [10^3 N/mm^2]$ | 84 |
| μ | 0,265 |
| $K [10^{-6} mm^2/N]$ | 1,93 |
| $HK_{0,1/20}$ | 620 |
| HG | 3 |
| CR | 3 |
| FR | 3 |
| SR | 52,2 |
| AR | 2 |
| PR | 3,2 |

P-SF67
907214.424

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,90680$ | $v_d = 21,40$ | $n_F - n_C = 0,042374$ |
| $n_e = 1,91675$ | $v_e = 21,23$ | $n_{F'} - n_{C'} = 0,043191$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,83479 |
| $n_{1970,1}$ | 1970,1 | 1,84280 |
| $n_{1529,6}$ | 1529,6 | 1,85235 |
| $n_{1060,0}$ | 1060,0 | 1,86543 |
| n_t | 1014,0 | 1,86727 |
| n_s | 852,1 | 1,87574 |
| n_r | 706,5 | 1,88833 |
| n_C | 656,3 | 1,89480 |
| $n_{C'}$ | 643,8 | 1,89666 |
| $n_{632,8}$ | 632,8 | 1,89841 |
| n_D | 589,3 | 1,90644 |
| n_d | 587,6 | 1,90680 |
| n_e | 546,1 | 1,91675 |
| n_F | 486,1 | 1,93717 |
| $n_{F'}$ | 480,0 | 1,93985 |
| n_g | 435,8 | 1,96401 |
| n_h | 404,7 | |
| 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 τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,933 | 0,840 |
| 2325 | 0,946 | 0,870 |
| 1970 | 0,984 | 0,960 |
| 1530 | 0,994 | 0,985 |
| 1060 | 0,994 | 0,985 |
| 700 | 0,983 | 0,958 |
| 660 | 0,981 | 0,952 |
| 620 | 0,978 | 0,946 |
| 580 | 0,971 | 0,930 |
| 546 | 0,954 | 0,890 |
| 500 | 0,901 | 0,770 |
| 460 | 0,810 | 0,590 |
| 436 | 0,707 | 0,420 |
| 420 | 0,574 | 0,250 |
| 405 | 0,364 | 0,080 |
| 400 | 0,276 | 0,040 |
| 390 | 0,090 | |
| 380 | 0,011 | |
| 370 | | |
| 365 | | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,1998 |
| $P_{C,s}$ | 0,4498 |
| $P_{d,C}$ | 0,2832 |
| $P_{e,d}$ | 0,2348 |
| $P_{g,F}$ | 0,6334 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,1960 |
| $P'_{C',s}$ | 0,4843 |
| $P'_{d,C'}$ | 0,2349 |
| $P'_{e,d}$ | 0,2303 |
| $P'_{g,F'}$ | 0,5595 |
| $P'_{i,h}$ | |

| Abweichungen rel. Teildispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0031 |
| $\Delta P_{C,s}$ | -0,0030 |
| $\Delta P_{F,e}$ | 0,0049 |
| $\Delta P_{g,F}$ | 0,0256 |
| $\Delta P_{i,g}$ | |

| Konstanten der Dispersionsformel | |
|----------------------------------|--------------|
| B_1 | 1,97464225 |
| B_2 | 0,467095921 |
| B_3 | 2,43154209 |
| C_1 | 0,0145772324 |
| C_2 | 0,0669790359 |
| C_3 | 157,444895 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 6,2 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 7,4 |
| $T_g [^\circ C]$ | 539 |
| $T_{10}^{13,0} [^\circ C]$ | 546 |
| $T_{10}^{7,6} [^\circ C]$ | 663 |
| $c_p [J/(g \cdot K)]$ | 0,530 |
| $\lambda [W/(m \cdot K)]$ | 0,790 |
| $\rho [g/cm^3]$ | 4,24 |
| $E [10^3 N/mm^2]$ | 90 |
| μ | 0,248 |
| $K [10^{-6} mm^2/N]$ | 2,96 |
| $HK_{0,1/20}$ | 440 |
| HG | 3 |
| CR | 1 |
| FR | 0 |
| SR | 1 |
| AR | 1,3 |
| PR | 1 |

| Konstanten der Formel für dn/dT | |
|-----------------------------------|------------------------|
| D_0 | $4,82 \cdot 10^{-7}$ |
| D_1 | $1,15 \cdot 10^{-8}$ |
| D_2 | $-9,95 \cdot 10^{-12}$ |
| E_0 | $1,15 \cdot 10^{-6}$ |
| E_1 | $1,65 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu m]$ | 0,315 |

| Farbcode | |
|--------------------------------|--------|
| λ_{80}/λ_5 | 48/39* |
| (*= λ_{70}/λ_5) | |

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

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|---------------------------------------|-----|------|---------------------------------------|-----|------|
| | $\Delta n_{rel}/\Delta T [10^{-6}/K]$ | | | $\Delta n_{abs}/\Delta T [10^{-6}/K]$ | | |
| $[^\circ C]$ | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | 2,6 | 5,5 | 10,1 | 0,1 | 2,9 | 7,4 |
| +20/ +40 | 2,8 | 6,3 | 11,7 | 1,2 | 4,6 | 10,0 |
| +60/ +80 | 3,1 | 7,0 | 13,0 | 1,9 | 5,7 | 11,7 |

SF6G05
809253.520

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,80906$ | $v_d = 25,28$ | $n_F - n_C = 0,032015$ |
| $n_e = 1,81661$ | $v_e = 25,08$ | $n_{F'} - n_{C'} = 0,032570$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,75661 |
| $n_{1970,1}$ | 1970,1 | 1,76163 |
| $n_{1529,6}$ | 1529,6 | 1,76797 |
| $n_{1060,0}$ | 1060,0 | 1,77741 |
| n_t | 1014,0 | 1,77879 |
| n_s | 852,1 | 1,78524 |
| n_r | 706,5 | 1,79491 |
| n_C | 656,3 | 1,79988 |
| $n_{C'}$ | 643,8 | 1,80131 |
| $n_{632,8}$ | 632,8 | 1,80265 |
| n_D | 589,3 | 1,80878 |
| n_d | 587,6 | 1,80906 |
| n_e | 546,1 | 1,81661 |
| n_F | 486,1 | 1,83190 |
| $n_{F'}$ | 480,0 | 1,83387 |
| n_g | 435,8 | |
| n_h | 404,7 | |
| 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 | |

| Konstanten der Dispersionsformel | |
|----------------------------------|--------------|
| B_1 | 1,62113942 |
| B_2 | 0,506586092 |
| B_3 | 10,4032298 |
| C_1 | 0,0113478992 |
| C_2 | 0,0535840223 |
| C_3 | 1118,83658 |

| Konstanten der Formel für dn/dT | |
|-----------------------------------|------------------------|
| D_0 | $6,90 \cdot 10^{-6}$ |
| D_1 | $1,76 \cdot 10^{-8}$ |
| D_2 | $-3,17 \cdot 10^{-11}$ |
| E_0 | $1,89 \cdot 10^{-6}$ |
| E_1 | $1,50 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu m]$ | 0,256 |

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|---|------|---|---|------|---|
| | $\Delta n_{rel} / \Delta T [10^{-6} / K]$ | | | $\Delta n_{abs} / \Delta T [10^{-6} / K]$ | | |
| [°C] | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | 6,4 | 10,3 | | 4,0 | 7,8 | |
| +20/ +40 | 7,0 | 11,4 | | 5,5 | 9,8 | |
| +60/ +80 | 7,5 | 12,1 | | 6,3 | 10,9 | |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,847 | 0,660 |
| 2325 | 0,877 | 0,721 |
| 1970 | 0,965 | 0,915 |
| 1530 | 0,995 | 0,987 |
| 1060 | 0,998 | 0,994 |
| 700 | 0,985 | 0,962 |
| 660 | 0,980 | 0,950 |
| 620 | 0,972 | 0,931 |
| 580 | 0,958 | 0,898 |
| 546 | 0,917 | 0,805 |
| 500 | 0,642 | 0,330 |
| 460 | 0,090 | 0,080 |
| 436 | | |
| 420 | | |
| 405 | | |
| 400 | | |
| 390 | | |
| 380 | | |
| 370 | | |
| 365 | | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Farbcode | |
|----------------------------------|--------|
| λ_{80} / λ_5 | 52/46* |
| (*= λ_{70} / λ_5) | |

| Bemerkungen |
|--------------------------|
| strahlenresistentes Glas |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2013 |
| $P_{C,s}$ | 0,4574 |
| $P_{d,C}$ | 0,2866 |
| $P_{e,d}$ | 0,2358 |
| $P_{g,F}$ | |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,1979 |
| $P'_{C',s}$ | 0,4933 |
| $P'_{d,C'}$ | 0,2380 |
| $P'_{e,d}$ | 0,2318 |
| $P'_{g,F'}$ | |
| $P'_{i,h}$ | |

| Abweichungen rel. Teildispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | -0,0062 |
| $\Delta P_{C,s}$ | -0,0044 |
| $\Delta P_{F,e}$ | 0,0025 |
| $\Delta P_{g,F}$ | |
| $\Delta P_{i,g}$ | |

| Sonstige Eigenschaften | |
|---|------|
| $\alpha_{-30/+70^\circ C} [10^{-6} / K]$ | 7,8 |
| $\alpha_{+20/+300^\circ C} [10^{-6} / K]$ | |
| $T_g [^\circ C]$ | 427 |
| $T_{10}^{13,0} [^\circ C]$ | 0 |
| $T_{10}^{7,6} [^\circ C]$ | 529 |
| $c_p [J/(g \cdot K)]$ | |
| $\lambda [W/(m \cdot K)]$ | |
| $\rho [g/cm^3]$ | 5,20 |
| $E [10^3 N/mm^2]$ | |
| μ | |
| $K [10^{-6} mm^2/N]$ | |
| $HK_{0,1/20}$ | 360 |
| HG | |
| CR | 4 |
| FR | 3 |
| SR | 51.3 |
| AR | 2.3 |
| PR | 3.3 |

SF57HT 847238.551

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,84666$ | $v_d = 23,83$ | $n_F - n_C = 0,035536$ |
| $n_e = 1,85504$ | $v_e = 23,64$ | $n_{F'} - n_{C'} = 0,036166$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,79026 |
| $n_{1970,1}$ | 1970,1 | 1,79539 |
| $n_{1529,6}$ | 1529,6 | 1,80187 |
| $n_{1060,0}$ | 1060,0 | 1,81185 |
| n_t | 1014,0 | 1,81335 |
| n_s | 852,1 | 1,82038 |
| n_r | 706,5 | 1,83102 |
| n_C | 656,3 | 1,83650 |
| $n_{C'}$ | 643,8 | 1,83808 |
| $n_{632,8}$ | 632,8 | 1,83957 |
| n_D | 589,3 | 1,84636 |
| n_d | 587,6 | 1,84666 |
| n_e | 546,1 | 1,85504 |
| n_F | 486,1 | 1,87204 |
| $n_{F'}$ | 480,0 | 1,87425 |
| n_g | 435,8 | 1,89393 |
| n_h | 404,7 | 1,91366 |
| 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 τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,911 | 0,792 |
| 2325 | 0,927 | 0,826 |
| 1970 | 0,979 | 0,948 |
| 1530 | 0,998 | 0,994 |
| 1060 | 0,999 | 0,999 |
| 700 | 0,999 | 0,997 |
| 660 | 0,999 | 0,997 |
| 620 | 0,999 | 0,997 |
| 580 | 0,999 | 0,997 |
| 546 | 0,998 | 0,996 |
| 500 | 0,996 | 0,990 |
| 460 | 0,990 | 0,976 |
| 436 | 0,981 | 0,954 |
| 420 | 0,964 | 0,912 |
| 405 | 0,919 | 0,810 |
| 400 | 0,896 | 0,760 |
| 390 | 0,787 | 0,550 |
| 380 | 0,577 | 0,252 |
| 370 | 0,230 | 0,026 |
| 365 | 0,080 | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,1976 |
| $P_{C,s}$ | 0,4539 |
| $P_{d,C}$ | 0,2859 |
| $P_{e,d}$ | 0,2356 |
| $P_{g,F}$ | 0,6160 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,1942 |
| $P'_{C',s}$ | 0,4895 |
| $P'_{d,C'}$ | 0,2373 |
| $P'_{e,d}$ | 0,2315 |
| $P'_{g,F'}$ | 0,5443 |
| $P'_{i,h}$ | |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | -0,0065 |
| $\Delta P_{C,s}$ | -0,0046 |
| $\Delta P_{F,e}$ | 0,0026 |
| $\Delta P_{g,F}$ | 0,0123 |
| $\Delta P_{i,g}$ | |

| Konstanten der Dispersionsformel | |
|-------------------------------------|--------------|
| B_1 | 1,81651371 |
| B_2 | 0,428893641 |
| B_3 | 1,07186278 |
| C_1 | 0,0143704198 |
| C_2 | 0,0592801172 |
| C_3 | 121,419942 |

| Sonstige Eigenschaften | |
|--|-------|
| $\alpha_{-30/+70^\circ\text{C}} [10^{-6}/\text{K}]$ | 8,3 |
| $\alpha_{+20/+300^\circ\text{C}} [10^{-6}/\text{K}]$ | 9,2 |
| $T_g [^\circ\text{C}]$ | 414 |
| $T_{10}^{13,0} [^\circ\text{C}]$ | 391 |
| $T_{10}^{7,6} [^\circ\text{C}]$ | 519 |
| $c_p [\text{J}/(\text{g}\cdot\text{K})]$ | 0,360 |
| $\lambda [\text{W}/(\text{m}\cdot\text{K})]$ | 0,620 |
| $\rho [\text{g}/\text{cm}^3]$ | 5,51 |
| $E [10^3 \text{N}/\text{mm}^2]$ | 54 |
| μ | 0,248 |
| $K [10^{-6} \text{mm}^2/\text{N}]$ | 0,02 |
| $HK_{0,1/20}$ | 350 |
| HG | 1 |
| CR | 2 |
| FR | 5 |
| SR | 52,3 |
| AR | 2,3 |
| PR | 4,3 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $7,26 \cdot 10^{-6}$ |
| D_1 | $1,88 \cdot 10^{-8}$ |
| D_2 | $-5,14 \cdot 10^{-11}$ |
| E_0 | $1,96 \cdot 10^{-6}$ |
| E_1 | $1,79 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu\text{m}]$ | 0,276 |

| Farbcode | |
|----------------------------------|--------|
| λ_{80}/λ_{5} | 40/36* |
| (*= λ_{70}/λ_{5}) | |

| Bemerkungen | |
|-------------------------|--|
| Anfrageglas, bleihaltig | |

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|--|------|------|--|------|------|
| [$^\circ\text{C}$] | $\Delta n_{rel}/\Delta T [10^{-6}/\text{K}]$ | | | $\Delta n_{abs}/\Delta T [10^{-6}/\text{K}]$ | | |
| | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | 6,6 | 11,1 | 16,7 | 4,2 | 8,6 | 14,1 |
| +20/ +40 | 7,6 | 12,5 | 18,9 | 6,0 | 10,9 | 17,2 |
| +60/ +80 | 8,0 | 13,4 | 20,1 | 6,8 | 12,1 | 18,8 |

SFL6
805254.337

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,80518$ | $v_d = 25,39$ | $n_F - n_C = 0,031708$ |
| $n_e = 1,81265$ | $v_e = 25,19$ | $n_{F'} - n_{C'} = 0,032260$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,74897 |
| $n_{1970,1}$ | 1970,1 | 1,75544 |
| $n_{1529,6}$ | 1529,6 | 1,76311 |
| $n_{1060,0}$ | 1060,0 | 1,77345 |
| n_t | 1014,0 | 1,77489 |
| n_s | 852,1 | 1,78147 |
| n_r | 706,5 | 1,79116 |
| n_C | 656,3 | 1,79609 |
| $n_{C'}$ | 643,8 | 1,79751 |
| $n_{632,8}$ | 632,8 | 1,79884 |
| n_D | 589,3 | 1,80491 |
| n_d | 587,6 | 1,80518 |
| n_e | 546,1 | 1,81265 |
| n_F | 486,1 | 1,82780 |
| $n_{F'}$ | 480,0 | 1,82977 |
| n_g | 435,8 | 1,84733 |
| n_h | 404,7 | 1,86500 |
| 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 | |

| Konstanten der Dispersionsformel | |
|----------------------------------|--------------|
| B_1 | 1,78922056 |
| B_2 | 0,328427448 |
| B_3 | 2,01639441 |
| C_1 | 0,0135163537 |
| C_2 | 0,0622729599 |
| C_3 | 168,014713 |

| Konstanten der Formel für dn/dT | |
|-----------------------------------|------------------------|
| D_0 | $-5,26 \cdot 10^{-6}$ |
| D_1 | $7,41 \cdot 10^{-9}$ |
| D_2 | $-1,89 \cdot 10^{-11}$ |
| E_0 | $1,02 \cdot 10^{-6}$ |
| E_1 | $1,62 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu m]$ | 0,288 |

| Temperaturkoeffizienten der Lichtbrechung | | | | | | |
|---|---|-----|-----|---|------|-----|
| | $\Delta n_{rel} / \Delta T [10^{-6} / K]$ | | | $\Delta n_{abs} / \Delta T [10^{-6} / K]$ | | |
| [°C] | 1060,0 | e | g | 1060,0 | e | g |
| -40/ -20 | -0,8 | 1,1 | 3,8 | -3,2 | -1,4 | 1,2 |
| +20/ +40 | -1,0 | 1,4 | 4,7 | -2,5 | -0,1 | 3,1 |
| +60/ +80 | -0,9 | 1,8 | 5,4 | -2,1 | 0,5 | 4,2 |

| Reintransmissionsgrad τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | | |
| 2325 | 0,930 | 0,840 |
| 1970 | 0,980 | 0,950 |
| 1530 | 0,998 | 0,995 |
| 1060 | 0,995 | 0,988 |
| 700 | 0,996 | 0,989 |
| 660 | 0,995 | 0,988 |
| 620 | 0,993 | 0,983 |
| 580 | 0,992 | 0,980 |
| 546 | 0,988 | 0,970 |
| 500 | 0,976 | 0,940 |
| 460 | 0,959 | 0,900 |
| 436 | 0,940 | 0,860 |
| 420 | 0,920 | 0,810 |
| 405 | 0,880 | 0,720 |
| 400 | 0,850 | 0,670 |
| 390 | 0,770 | 0,520 |
| 380 | 0,570 | 0,250 |
| 370 | 0,210 | 0,020 |
| 365 | | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Farbcode | |
|-----------------------------------|-------|
| λ_{80} / λ_5 | 45/37 |
| (* = λ_{70} / λ_5) | |

| Bemerkungen |
|-------------|
| Anfrageglas |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2075 |
| $P_{C,s}$ | 0,4611 |
| $P_{d,C}$ | 0,2867 |
| $P_{e,d}$ | 0,2355 |
| $P_{g,F}$ | 0,6159 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,2040 |
| $P'_{C',s}$ | 0,4970 |
| $P'_{d,C'}$ | 0,2380 |
| $P'_{e,d}$ | 0,2315 |
| $P'_{g,F'}$ | 0,5444 |
| $P'_{i,h}$ | |

| Abweichungen rel. Teildispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0032 |
| $\Delta P_{C,s}$ | -0,0010 |
| $\Delta P_{F,e}$ | 0,0027 |
| $\Delta P_{g,F}$ | 0,0148 |
| $\Delta P_{i,g}$ | |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6} / K]$ | 9,0 |
| $\alpha_{+20/+300^\circ C} [10^{-6} / K]$ | 10,3 |
| $T_g [^\circ C]$ | 585 |
| $T_{10}^{13,0} [^\circ C]$ | 592 |
| $T_{10}^{7,6} [^\circ C]$ | 0 |
| $c_p [J/(g \cdot K)]$ | |
| $\lambda [W/(m \cdot K)]$ | |
| $\rho [g/cm^3]$ | 3,37 |
| $E [10^3 N/mm^2]$ | 93 |
| μ | 0,260 |
| $K [10^{-6} mm^2/N]$ | 2,79 |
| $HK_{0,1/20}$ | 570 |
| HG | |
| CR | 1 |
| FR | 0 |
| SR | 2 |
| AR | 1 |
| PR | 1 |

SFL57
847236.355

| | | |
|-----------------|---------------|------------------------------|
| $n_d = 1,84666$ | $v_d = 23,62$ | $n_F - n_C = 0,035841$ |
| $n_e = 1,85510$ | $v_e = 23,43$ | $n_{F'} - n_{C'} = 0,036489$ |

| Brechzahlen | | |
|--------------|----------------|---------|
| | λ [nm] | |
| $n_{2325,4}$ | 2325,4 | 1,78487 |
| $n_{1970,1}$ | 1970,1 | 1,79171 |
| $n_{1529,6}$ | 1529,6 | 1,79989 |
| $n_{1060,0}$ | 1060,0 | 1,81117 |
| n_t | 1014,0 | 1,81276 |
| n_s | 852,1 | 1,82007 |
| n_r | 706,5 | 1,83089 |
| n_C | 656,3 | 1,83643 |
| $n_{C'}$ | 643,8 | 1,83802 |
| $n_{632,8}$ | 632,8 | 1,83952 |
| n_D | 589,3 | 1,84635 |
| n_d | 587,6 | 1,84666 |
| n_e | 546,1 | 1,85510 |
| n_F | 486,1 | 1,87227 |
| $n_{F'}$ | 480,0 | 1,87451 |
| n_g | 435,8 | 1,89456 |
| n_h | 404,7 | 1,91488 |
| 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 τ_i | | |
|--------------------------------|-----------------|-----------------|
| λ [nm] | τ_i (10mm) | τ_i (25mm) |
| 2500 | 0,882 | 0,730 |
| 2325 | 0,910 | 0,790 |
| 1970 | 0,984 | 0,960 |
| 1530 | 0,996 | 0,990 |
| 1060 | 0,996 | 0,991 |
| 700 | 0,990 | 0,976 |
| 660 | 0,987 | 0,969 |
| 620 | 0,988 | 0,971 |
| 580 | 0,988 | 0,971 |
| 546 | 0,982 | 0,955 |
| 500 | 0,954 | 0,890 |
| 460 | 0,915 | 0,800 |
| 436 | 0,852 | 0,670 |
| 420 | 0,770 | 0,520 |
| 405 | 0,609 | 0,290 |
| 400 | 0,525 | 0,200 |
| 390 | 0,260 | 0,030 |
| 380 | 0,050 | |
| 370 | | |
| 365 | | |
| 350 | | |
| 334 | | |
| 320 | | |
| 310 | | |
| 300 | | |
| 290 | | |
| 280 | | |
| 270 | | |
| 260 | | |
| 250 | | |

| Relative Teildispersionen | |
|---------------------------|--------|
| $P_{s,t}$ | 0,2038 |
| $P_{C,s}$ | 0,4566 |
| $P_{d,C}$ | 0,2855 |
| $P_{e,d}$ | 0,2353 |
| $P_{g,F}$ | 0,6218 |
| $P_{i,h}$ | |
| $P'_{s,t}$ | 0,2002 |
| $P'_{C',s}$ | 0,4920 |
| $P'_{d,C'}$ | 0,2369 |
| $P'_{e,d}$ | 0,2311 |
| $P'_{g,F'}$ | 0,5495 |
| $P'_{i,h}$ | |

| Abweichungen rel. Teil- dispersionen ΔP von der "Normalgeraden" | |
|---|---------|
| $\Delta P_{C,t}$ | 0,0034 |
| $\Delta P_{C,s}$ | -0,0014 |
| $\Delta P_{F,e}$ | 0,0033 |
| $\Delta P_{g,F}$ | 0,0177 |
| $\Delta P_{i,g}$ | |

| Konstanten der Dispersionsformel | |
|-------------------------------------|--------------|
| B_1 | 1,88742326 |
| B_2 | 0,360534025 |
| B_3 | 2,26189313 |
| C_1 | 0,0145939341 |
| C_2 | 0,0648198946 |
| C_3 | 176,062211 |

| Sonstige Eigenschaften | |
|---|-------|
| $\alpha_{-30/+70^\circ C} [10^{-6}/K]$ | 8,7 |
| $\alpha_{+20/+300^\circ C} [10^{-6}/K]$ | 10,0 |
| $T_g [^\circ C]$ | 598 |
| $T_{10}^{13,0} [^\circ C]$ | 0 |
| $T_{10}^{7,6} [^\circ C]$ | 700 |
| $c_p [J/(g \cdot K)]$ | 0,670 |
| $\lambda [W/(m \cdot K)]$ | 0,997 |
| $\rho [g/cm^3]$ | 3,55 |
| $E [10^3 N/mm^2]$ | 97 |
| μ | 0,261 |
| $K [10^{-6} mm^2/N]$ | 2,73 |
| $HK_{0,1/20}$ | 580 |
| HG | 3 |
| CR | 1 |
| FR | 0 |
| SR | 1.3 |
| AR | 1 |
| PR | 1.3 |

| Konstanten der Formel für dn/dT | |
|--------------------------------------|------------------------|
| D_0 | $-3,63 \cdot 10^{-6}$ |
| D_1 | $8,61 \cdot 10^{-9}$ |
| D_2 | $-9,98 \cdot 10^{-12}$ |
| E_0 | $1,10 \cdot 10^{-6}$ |
| E_1 | $1,69 \cdot 10^{-9}$ |
| $\lambda_{TK} [\mu m]$ | 0,293 |

| Farbcode | |
|--------------------------------|--------|
| λ_{80}/λ_5 | 44/38* |
| (*= λ_{70}/λ_5) | |

| Bemerkungen | |
|-------------------------|--|
| Anfrageglas, bleihaltig | |

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

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