# 8800R

## Technical Data

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|---|---|---|---|
| Glass Type/Application | Glass tubes, chemically highly resistant, for solar power stations. | | |
| Physical Data (approx. value) | Coefficient of mean linear thermal expansion α(20°C; 300°C) (ISO 7991) | 5.5 | $10^{-6}K^{-1}$ |
| | Transformation temperature $T_g$ (ISO 7884-8) | 565 | °C |
| | Glass temperature at viscosity η in dPa·s | | |
| | $10^{13}$ (annealing point) (ISO 7884-4) | 570 | °C |
| | $10^{7.6}$ (softening point) (ISO 7884-3) | 790 | °C |
| | $10^{4}$ (working point) (ISO 7884-2) | 1175 | °C |
| | Stress-optical coefficient K (DIN 52314) | 3.3 | $10^{-6}mm^2 \cdot N^{-1}$ |
| | Density ρ at 25°C | 2.34 | $g \cdot cm^{-3}$ |
| | Modulus of elasticity E (Young's modulus) | 73 | $10^3 N \cdot mm^{-2}$ |
| | Poisson's ratio μ | - | |
| | Thermal conductivity $\lambda_w$ at 90°C | - | $W \cdot m^{-1} \cdot K^{-1}$ |
| | Log of the electric volume resistivity (Ω·cm) | | |
| | at 250°C | 7.0 | |
| | at 350°C | 5.7 | |
| | $t_{k100}$ (DIN 52326) | 191 | °C |
| | Dielectric constant ε for 1 MHz at 25°C | 5.9 | |
| | Dielectric loss factor tan d for 1 MHz at 25°C | 143 | $10^{-4}$ |
| | Refractive index $n_d$ (λ = 587.6 nm) | 1.490 | |
| Chemical Resistance | Hydrolytic resistance (ISO 719) | Class | HGB 1 |
| | Acid resistance (DIN 12116) | Class | S1 |
| | Alkali resistance (ISO 695) | Class | A2 |

The heavy metal content for the elements lead, cadmium, mercury and hexavalent chromium is below 100 ppm.



SCHOTT