Borosilicate
SCHOTT Duran® Lab Glass (Tubed)

Description:
SCHOTT Duran® is general-purpose borosilicate glass tubing. Duran® has identical chemical and thermal properties as Schott's Borofloat® 33, as it is made from the same material. Duran’s high resistance to chemicals and heat makes it ideal for laboratory glassware.

Features:
- Excellent thermal properties
- Highly resistant to chemicals
- Very good transmission properties

Applications:
- Lab glassware
- Pipelines
- Chemical industry
- Flameproof tubes
- Flowmeters

Physical Properties:

Mechanical:
- Density (25°C) ρ: 2.2 g/cm³, 137.3 lb/ft³
- Young’s Modulus E: 64 kN/mm², 9.28 Mpsi
- Poisson’s Ratio μ: 0.2
- Knoop Hardness HK: 480
- Bending strength σ: 25 MPa, 3.63 x 10³ psi

Viscosity:
- Working Point (10⁴ poises): 1260°C, 2300°F
- Softening Point (10⁷.6 poises): 825°C, 1517°F
- Annealing Point (10¹³ poises): 560°C, 1040°F
- Strain Point (10¹⁴.5 poises): 518°C, 964°F

Thermal Expansion:
- 0 – 300°C (32 – 572°F): 3.25 x 10⁻⁶/K

Optical:
- Index of Refraction @ 435.8nm: 1.4802
- 479.9nm: 1.4768
- 546.1nm: 1.4731
- 589.3nm: 1.4713
- 643.8nm: 1.4695
- 656.3.3nm: 1.4692

Electrical:
- Log10 Volume Resistivity: (250°C, 482°F) 8.0
- (350°C, 932°F) 6.5

Dimensions:
- Smallest size: 3mm (0.118”)
- Largest size: 325mm (12.795”)

Dimensions:
- Outer Diameter:
- Wall Thickness:
- Length:
  - 0.7mm (0.028”)
  - 10mm (0.394”)
  - 17mm (0.669”)
  - 150mm (5.9”)

Web: www.abrisatechnologies.com - E-mail: info@abrisatechnologies.com - Tel: (877) 622-7472
Transmission

![Graph showing transmission vs wavelength for different wall thicknesses (1 mm, 2 mm, 8 mm)](image-url)