

TMA 402 F3 Hyperion® Polymer Edition

Furnace IC-furnace: -70°C to 450°C using mechanical cooling

Heating rates 0.001 K/min to 30 K/min

Measuring ranges/
 Δl resolution

- 500 μm ($\pm 250 \mu\text{m}$) / 0.125 nm
- 5000 μm ($\pm 2500 \mu\text{m}$) / 1.25 nm

Force and displacement Simultaneous measurement of force and displacement signal

Force range (load at sample) 0.001 N to 3 N without using additional weights

Force resolution < 0.01 mN

Sample holder systems Fused silica

Sample dimensions

- Expansion/penetration: Length: 30 mm max.; sample holder \varnothing 8 mm
- Tension: Length: 30 mm max.; width: 6 mm, thickness: 1 mm
- 3-point bending: Length: 10 mm max.; width: 5 mm

Atmospheres 1 mass flow controller (MFC, 2nd independent MFC optional),
gas flow rate 0 to 50 ml/min (software-controlled), inert, oxidizing, reducing,
vacuum (10^{-4} mbar)

Various accessories Spacers, crucibles and special wax containers