

HIGH PRESSURE CAPILLARY RHEOMETER (GOTTFERT)

RHEOGRAPH 75 is an innovative high pressure capillary rheometer, according to DIN 54811, to determine the flow behavior and viscosity of thermoplastics and rubbers. Beside viscosity measurements close to processing shear rates, the capillary rheometer is the basic instrument for an open platform for advanced polymer characterization. Additional features of the capillary rheometer are: thermal conductivity, pVT-measurements, and thermal stability for material characterization.

Technical Characteristics

- Double barrel system (Ø15, Ø12 mm)
- Pressure transducers (500, 2000 bar)
- Shear rate range up to 10^7 1/s
- Temperature range up to 400°C

Types of measurements

- Viscosity and flow behavior of thermoplastics and rubbers
- Pressure-volume-temperature (pvt) diagrams by isothermal method, according to ISO 17744
- Thermal conductivity of materials at pressures up to 1000 bar, according to astm d5930