PRODUCT DATASHEET

Capillary Rheometer for Dope and Polymer Melts

Viscosity at spinning shear rates





DETAIL – HEATED BARREL

OVERVIEW

The Tech Inc. Capillary Rheometer for Dope and Polymer Melts measures the shear viscosity of polymer melts and concentrated spinning dopes at the shear rates found in spinnerets and dies. A piston drives the sample through a heated capillary while pressure and speed are recorded.

MODELS AND CONFIGURATIONS

- **Single-bore rheometer** – standard tests.
- **Twin-bore rheometer** – Bagley correction in one run.

TYPICAL DESIGN DATA

Temperature	Up to 400 °C
Shear rate	About 10 to 100 000 1/s
Force	Up to 20 kN
Dies	Several L/D ratios

APPLICATIONS

Hollow-fibre and fibre spinning dopes, polymer melts, extrusion and moulding research.

KEY ADVANTAGES

- **Real process shear rates** – as in spinnerets and dies
- **Wide range** – dopes and melts
- **Corrected data** – Bagley and Rabinowitsch

Designed and built by Tech Inc. · **Part of the Davey Group since 1990**

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