

Brabender

Melt Rheology characteristics and response of thermoplastic, thermosets, elastomers, and similar materials to the combined influence of temperature and shear.

Scope:

An instrument continuously measures the torque exerted in shear on a polymer or compound over a wide range of shear rates and temperatures. The twin screw combination measures both heat and drive information which is continuously exchanged.

The records of torque, time and temperature are displayed on plastogram graphical data software. Overlaying data enable statistical evaluation of.

- Fusion behavior
- Heat and Shear stability
- Flow-curing behavior of crosslinking polymers
- Flow curing behavior of elastomers
- Liquid absorption

The twin screw provides data for evaluation of

- Plastifying
- Compounding
- Homogenization
- Alloying of polymers
- Poly addition polymerization
- Chemical reactions.
- Dispersion of pigments and additives

