

Plastics Technology, Lightweight Design

2. Measurement Systems



Thermal analysis

Light-Flash-Apparatur

- Thermal conductivity measurements
- ASTM E 1461
- Temperature range -100°C – 500 °C

HDT Vicat

- softening temperature measuring system
- DIN EN ISO 306
- Heat deflection temperature DIN EN ISO 75-1,-2,-3

High pressure Capillary viscometry

- Temperature range 23°C – 400°C
- Shear rate range 1/sek - 10000/sek
- Rheological behavior of polymer melts
- Viscosity testing
- DIN 54811

Rotation and oscillation type rheometer

- Temperature range 23°C – 300°C
- Shear rate range 0,0001/sek - 1000/sek
- Flow curves, hardening of the resin
DIN 53018, ISO 3210, DIN 53019, ISO 3219, DIN 54453

Melt Index Test

- MFI, MFR DIN EN ISO 1133

