

# RHEOMETER

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MANUFACTURER : TA Instruments

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MODEL : ARES Rheometer

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## Specifications

- Strain-controlled rheometer
- SMT (separated motor and transducer) technology
- Torque measurement range: 0.02 to 2000 g•cm
- Normal force measurement range: 2 to 2000 gmF
- Maximum operating frequency: 100 rad/s
- Temperature range: ambient to 300°C (forced convection oven)
- Geometries: parallel plates (8 mm, 25 mm, 50 mm), cone and plate, torsion rectangular
- Test modes: i) dynamic test methods (e.g., strain sweep, frequency sweep, time sweep, temperature ramp); ii) steady and transient test methods (e.g., rate sweep, stress relaxation, thixotropic loop).

## Applications

- Flow and deformation behavior measurements on various materials (flux, underfill, sealband, thermal interface material (TIM))

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## Example

Temperature sweep (complex viscosity ( $\eta^*$ ) vs temperature) for an uncured epoxy thermoset

