



# Polymer Rheological Characterization

## CONE AND PLATE VISCOSITY ANALYSIS

### KEY WORDS

RHEOLOGY,  
VISCOELASTICITY,  
MOLTEN POLYMERS

### DESCRIPTION

This service focuses on the precise rheological characterization of polymeric materials, using a cone and plate geometry that ensures a uniform shear rate across the entire sample. This technique is ideal for analyzing the flow behavior of molten polymers, adhesives, coatings, and other viscoelastic fluids up to 180 °C. Determining the flow curve allows for optimizing processing parameters, performing quality control, evaluating the stability of formulations, and predicting the material's behavior in its final application.

### AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Cone and plate rheometer

### APPLICATIONS

- Hot melt adhesives
- High viscosity polymers
- Pastes and gels
- Coatings and paints
- Formulations with high solids content
- Modified asphalts and bitumens

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