



#3306

Mechanical Performance

MECHANICAL EVALUATION OF POLYMERIC MATERIALS

DESCRIPTION

The assesment of mechanical properties allows to determine the capacity of materials to develop reversible or irreversible deformations and to resist failure when a force is applied at a specific rate of deformation and a given temperature.

AVAILABLE EQUIPMENT

- Instron 3369 tester. Temperature test range: -70 to 200 °C; Load Capacity: 50 kN; Maximum speed: 500 mm/min; Vertical test space: 1193 mm
- Measurement of tensile, compression and flexural properties
- Determination of Friction Coefficient
- Adhesion tests.
- Tearing tests
- Peeling tests

ADVANTAGES

- Full software control
- Evaluation of temperature effects on mechanical behavior of plastics

APPLICATIONS

Polymers | Polymer nanocomposites | Films, multi-layer films and laminates | Recycled polymers | Among many other materials.

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