



# Mechanical Performance

## MECHANICAL EVALUATION OF POLYMERIC MATERIALS

### KEY WORDS

MECHANICAL BEHAVIOR,  
POLYMER MATERIALS,  
MECHANICAL PROPERTIES

### DESCRIPTION

The assessment 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 TECHNIQUES AND/OR EQUIPMENT

Universal testing machine. 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

### APPLICATIONS

Polymers  
Polymer nanocomposites  
Films, multi-layer films and laminates  
Recycled polymers

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