

# Mechanical Properties of Rigid Plastics

## TENSILE TEST OF RIGID PLASTICS



### KEY WORDS

TENSION,  
MECHANICAL  
STRENGTH,  
ASTM D638

### DESCRIPTION

The resistance of a plastic material to a tensile force is determined. This test provides fundamental properties such as tensile strength, modulus of elasticity (stiffness), and percentage elongation at break. The results are crucial for component design, material selection, and quality control, ensuring that the material will withstand the expected tensile loads in its application.

### AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Determination of mechanical properties of rigid plastics according to ASTM D638 standard

### APPLICATIONS

- Injection molded parts
- 3D printed test tubes
- Structural components
- Engineering plastics
- Raw material quality control

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