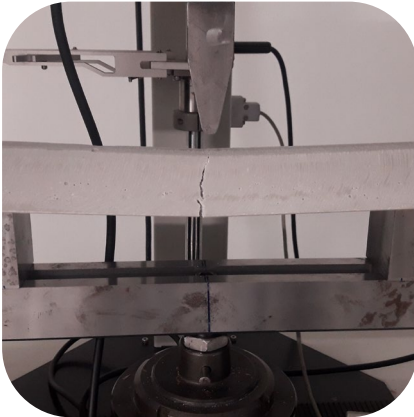


Properties of Flexion

THREE-POINT BENDING TEST OF PLASTIC MATERIALS



KEY WORDS

FLEXURE,
STIFFNESS,
ASTM D790

DESCRIPTION

The stiffness and strength of a plastic material are determined when it is subjected to a bending force. The three-point bending test measures properties such as the flexural modulus (a measure of stiffness) and flexural strength. It is a fundamental test for materials that will be used in structural applications where they must withstand loads without bending or breaking.

AVAILABLE TECHNIQUES AND/OR EQUIPMENT

- Determination of flexural properties of plastics according to ASTM D790 standard

APPLICATIONS

- Structural components
- Supports and beams
- Device casings
- Reinforced plastics
- Building materials

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