Fatigue to Failure Tester

ALPHATECHNOLOGIES
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Determines the fatigue life of elastomeric compounds in tension. Special specimens are stretched and released via a continuously rotating cam. Device records number of cycles applied to each specimen before sample is destroyed by fatigue.

Fatigue to Failure Tester

Features

- Meets ASTM D4482.
- Control and collect data from up to three units with one computer.
- Computer connected with a USB port.
- Load up to twenty-four samples for each trial.
- Failure determined by photo sensor switches.

Dumbbells mounted in the FTFT

Specifications

TEMPERATURE:	RT
FREQUENCY:	100 cpm
EXTENSION RATIO:	1.6 to 2.4
DIMENSIONS:	Width 72.4 cm (28.5 in), height 63.5 cm (25 in), depth 67.3 cm (26.5 in)
ELECTRICAL:	110 VAC/60 Hz or 220 VAC/50 Hz 20-amp

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Fatigue to Failure Tester

Performance

- Measure number of cycles required to make a compound fail.
- More sensitive than many other methods.
- Suitable for research and development.

Options

- Sample mold
- Dumbbell die cutter
- Computer

Test Capabilities

- Extension cycling fatigue.
- Geometric mean fatigue life.
- Fatigue life as a function of extension ratio and/or strain energy.

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