

IDM

Instruments

Foam Compression Tester (Car Seats, Mattresses)

Model Number: F0013

Details: Complying with relevant standards, the Foam Compression Tester is used to evaluate a degree of firmness common within the foam industry, either in the laboratory, or on the production line.

This universal measurement of firmness is based on a physical property called the indentation force deflection (IFD) and is calculated by determining the force required to deflect the test piece a percentage of its' original thickness using a circular indenter.

The Foam Compression Tester is a closed-looped, servo-controlled unit, which drives a ball screw and nut for its vertical movement. The electronic sensing unit is calibrated better than 1% accuracy.

The 322±2cm² circular indenter foot applies a force in newtons at a rate of 0.4 to 6.4mm/s while also recording the degree of indentation to ±0.2mm.

To compare test results, test pieces must be of the same size and thickness i.e. 380mm x 380mm x 50mm ±3mm. The whole article may be used if moulded shapes are being tested.

The PC based control system uses National Instruments LabView and is capable of storing test data such as operator, date, time, sample description etc. All test results can also be printed.



**Representante Oficial para América Latina
REGMED INDÚSTRIA TÉCNICA DE PRECISÃO LTDA.**

tel. + 55 11 3601-5700 fax. + 55 11 3601-5973 regmed@regmed.com.br www.regmed.com.br

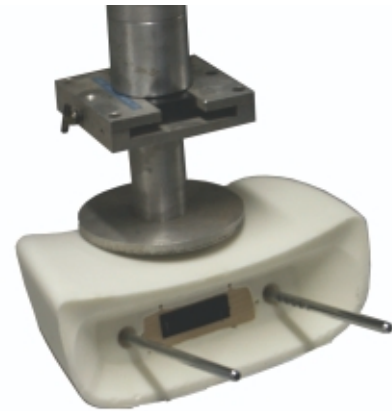
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Features:

- Programmable testing procedures.
- Minimal Operator Training.
- Cycle History page to view progress of testing.
- Printable Reports.
- Large Support Table.
- Easy to use.
- Windows based software.
- Capability of testing different sized samples.
- Time/Date internal memory on software.



Applications:

- Flexible cellular polyurethane
- Car seats
- Bike seats
- Mattresses
- Furniture
- Chairs

Options:

- Load cells

Standards:

- AS 2281
- AS 2282.8
- ASTM F1566
- ASTM D3574 -- Test B



Connections:

- Electrical: **220/240 VAC @ 50 HZ**
110 VAC @ 60 HZ

Dimensions:

- **H: 2,925mm** • **W: 2,500mm**
- **D: 1,350mm** • **Weight: 245kg**



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