

Foam Porosity Tester

Automatic Model: F0031

a measurable difference...

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instruments

The Auto FPT is used for monitoring the porosity of flexible cellular polyurethane.

The machine determines how easy air passes through a cellular structure. Airflow values may be used as an indirect measurement of certain cell structure characteristics. The F0031 model foam porosity tester is made with reference to international standards for measurement of A flexible cellular test piece, 50mm x 50mm x 25mm, It is placed in a vacuum chamber cavity and a specified automatic constant differential air pressure is applied. The F0031's Pa Pressure can be digitally set on the display and once the FPT reaches the Pa automatically the rate of airflow at the set Pa is lock in and (Held) on the Flow display automatically completing a test in seconds.

Applications:

- Flexible cellular polyurethane
- Vicso Foams

Features:

- Touch Screen Operation
- Digital Manometer: 0-500 Pa \pm 1%
- Variable Pa Range
- Automatic Pa control
- Automatic Flow reading hold
- Selectable Units L/min, CF/min
- RS232 Data Output
- Different Flow ranges available
- Test head area: 50mm x 50mm x 25mm

Options:

- Printer
- Different Flow ranges available:

(Please select instrument range upon order)

0.2 – 20 L/min unit:

- Accuracy: 0.2 – 20 L/min = \pm 2% FS

2 – 200 L/min unit:

- Accuracy: 2 – 200 L/min = \pm 1% FS

5 – 500 L/min unit:

- Accuracy: 5 – 500 L/min = \pm 1% FS



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TEST SCREEN

Test screen has the start and stop touch buttons and also the set up button for testing. It also displays the pre-set pa pressure and displays automatically the real time pressure as the FPT automatically increases to its set point. Once reaching the set point, after 2 seconds, it will hold the flow reading on the display.



RESULT SCREEN

After locking the stable reading for 2 seconds, the test result screen will be displayed automatically showing results, time, date and serial number of the instrument used. This information can also be exported via RS232.

Benefits:

- Able to measure Visco Foam (memory foam)
- Fast automatic results
- Quick and simple process
- Useful for Quality Control
- Precise, repeatable tests results
- Easy to use
- Accurate
- Reduction of rejects

Connections:

- **Electrical:** 220/240 VAC @ 50 HZ
or
110 VAC @ 60 HZ
(please specify when ordering)

Dimensions:

- **H:** 450mm
- **W:** 200mm
- **D:** 650mm
- **Weight:** 40kg

Standards:

- AS 2282.14
- ASTM D3574 - Test G
- ISO 7231
- BS EN ISO 7231
- DIN EN ISO 7231
- EN ISO 7231
- JIS K 6400

PLEASE NOTE

IDM supplies BP Series Bandsaws which are perfect for thicker foam sample preparation. (Particularly for F0031 sample pieces)

