

TESTING INSTRUMENTS FOR
A MEASURABLE DIFFERENCE...

IDM
instruments

FOAM RESILIENCE TESTERS

MODELS: IDM-F0030-M1 & IDM-F0030-M2



INTRODUCTION

IDM's Foam Resilience Testers determine the resilience of flexible cellular polyurethane. A steel ball is dropped vertically on to a test piece and the rebound height measured and expressed as a percentage of the height dropped.

IDM-F0030-M1- Legacy Model is an economical resilience tester, where the steel ball is mechanically dropped, and the rebound result is captured by eye against the scale.

IDM-F0030-M2 – Digital Model is a full digital model where once the ball is dropped the result is automatically captured on the touch screen, with the advantages of great repeatability, digital test results, statistical data and a USB port for exporting.

The Digital Foam Resilience Tester uses an electronic sensor to detect the impact of the steel ball on the foam sample. Using data from the impact is calculated the rebound value. After each test, the rebound value (%) is displayed on the touch screen.



IDM-F0030-M1

IDM-F0030-M2

FEATURES

IDM-F0030-M1

- 2 x Ø16mm Chrome Steel Ball
- Adjustable feet – for levelling
- Height Adjustable Test Tube
- Magnetic Ball Release

IDM-F0030-M2

- All F0030-M1 features
- 7" Touch Screen – for control and test display
- Test Report Generation - Microsoft Excel
- Statistical Data (min, max, mean, deviation)
- 1 x USB port – for saving test reports
- Magnetic Rod for ball retrieval

TEST RESULTS – IDM-F0030-M2 ONLY

At the end of each test, the data can be saved into the table on the screen, the program calculates the minimum, maximum, mean and deviation from a series of tests.

HOME v141218 MENU REPORTS EXIT

Resilience 0.0 %

SL NO.	RESILIENCE	RESULT	TIME
9	7.7 %	P	18:58:00
8	7.7 %	P	18:57:51
7	58.5 %	P	18:57:37
6	35.7 %	P	18:57:09

EXPORT SAVE CLEAR

	MIN	MAX	MEAN	DEVIATION
Resilience	5.3 %	59.3 %	31.1 %	20.6 %

HOLD

Report_a18-01-2019_12_08_09_PM.xls
Not saved yet

RESILIENCE	MIN	MAX	MEAN	DEVIATION
5.3 %	5.3 %	59.3 %	31.1 %	20.6 %

Sample No.	RESILIENCE	RESULT	TIME	DATE
1	24.7 %	PASS	18:52:38	18-01-2019
2	35.1 %	PASS	18:54:05	18-01-2019
3	3.3 %	PASS	18:54:16	18-01-2019
4	38 %	PASS	18:56:04	18-01-2019
5	59.3 %	PASS	18:58:19	18-01-2019
6	35.7 %	PASS	18:57:09	18-01-2019
7	58.5 %	PASS	18:57:37	18-01-2019
8	7.7 %	PASS	18:57:51	18-01-2019
9	7.7 %	PASS	18:58:00	18-01-2019

report

SPECIFICATIONS

	IDM-F0030-M1	IDM-F0030-M2
Type	Legacy Model	Digital
Power Supply	N/a	110/240V @ 50/60Hz (universal)
Readout	N/a	7" Touch Screen
Export	N/a	1 x USB Port
Ball Release	Mechanical button (magnetic release)	Touch Screen (magnetic release)
Ball Retrieval	N/a	Magnetic Rod
Drop Tube	Clear Acrylic Plastic	
Drop Tube Diameter	Ø50mm (3mm wall thickness)	
Drop Tube Setting	0 - 50mm (maximum sample thickness)	
Drop Height	516mm to bottom of tube	
Tube Markings	1% - 120° arc, 5% - complete circle	
Drop Ball Size	Ø16mm	
Drop Ball Weight	16.5g	
Connections	N/a	110/240 VAC @ 50/60Hz

OPTIONAL ITEMS

- Spare Ø16mm steel ball
- JIS K6400 Method A – Tube Length: 460mm, Drop Height: 500 mm

DIMENSIONS

IDM-F0030-M1

Instrument:

- H: 620mm
- W: 250mm
- D: 290mm
- Weight: 7kg

Packaged:

- H: 480mm
- W: 320mm
- D: 940mm
- Weight: 7kg

IDM-F0030-M2

Instrument:

- H: 620mm
- W: 375mm
- D: 290mm
- Weight: 7kg

Packaged:

- H: 480mm
- W: 320mm
- D: 940mm
- Weight: 7kg

APPLICATIONS

- Flexible Cellular Polyurethane
- Visco Foams

STANDARDS

- AS 2282.11
- ASTM D3574 – Test H
- ISO 8307
- JIS K 6400
- BS EN ISO 4651
- DIN EN ISO 4651
- EN ISO 4651
- BS EN ISO 8307
- DIN EN ISO 8307
- ISO 8307
- BT/T6670
- GB 10807

WARRANTY AND CALIBRATION SERVICES

- 1 year Warranty
- Our **Preventive Maintenance and Calibration (PM&C) program** has been designed to make the maintenance and calibration of your valuable testing equipment more cost effective by preventing breakdowns and downtime by regular calibration, service and replacement of defective parts. Talk to us about this today.

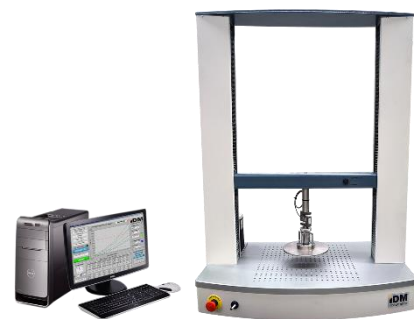
RELATED ITEMS

1. Use foam samples cut with the Sample Band Saw (S0017) with the F0031 Automatic Foam Porosity to test foam porosity.



IDM-F0031-M1

2. Use the Universal Testing Machine for compression or tear testing.



IDM-F0025-M1