

TESTING INSTRUMENTS FOR A
MEASURABLE DIFFERENCE...

IDM
instruments

FALLING DART IMPACT TESTER

MODEL: IDM-F0008-M1; IDM-F0008-M2



INTRODUCTION

The Falling Dart Impact Tester covers the determination of the energy that causes Polyethylene Film to fail under specified conditions, with the impact of a free-falling dart. This energy is expressed in terms of the weight (mass) of the dart falling from a specified height, which would result in 50% failure of specimens tested. For example, Using Method A, the unit employs a dart with a 38mm diameter hemispherical head, dropped from a height of 660mm. This unit may be used for films whose impact resistance requires masses of approximately 50 grams to 2 kg to fracture them.

FEATURES

- Bench-mounted system
- Pneumatic clamping of films
- Two Darts as per method(s) required
- Adjustable dart drop height
- Foot Switch for dart release
- Brass Weight set supplied
- Cutting Template 200mmx200mm)

APPLICATIONS

- Flexible Films
- Plastic Films

STANDARDS

- ASTM D 1709
- ASTM D 4272
- JIS K7124
- ASTM D 1709
- ASTM D 4272
- JIS K7124

CONNECTIONS

INSTRUMENTS:

- 220/240 VAC @ 50 Hz
- Or,
- 110 VAC @ 60 Hz
- ** Please specify when ordering.

DIMENSIONS

IDM-F0008-M1 – A METHOD

INSTRUMENTS:

- H: 1035 mm
- W: 400 mm
- L: 400 mm
- Weight: 30 kg

PACKAGE:

- **Box 1**
H: 520mm x W: 520mm x
L: 520 mm @ 26 kg
- **Box 2**
H: 100 mm x W: 100 mm x
D: 1160 mm @ 4 kg

IDM-F0008-M2 – A & B METHOD

INSTRUMENTS:

- H: 1885 mm
- W: 400 mm
- L: 400 mm
- Weight: 33 kg

PACKAGE:

- **Box 1**
H: 520mm x W: 520mm x
L: 520 mm @ 28.5 kg
- **Box 2**
H: 130 mm x W: 200 mm x
D: 11950 mm @ 4 kg

OPTIONAL MODELS

IDM-F0008-M1 – A METHOD

- 2x Aluminium Dart Head- Ø 38 mm (50g)
- Drop Height - 660mm
- Brass Weights - 2x5g, 8x15g, 8x30g, 8x60g

IDM-F0008-M2 – A & B METHOD

- 1 x Aluminum Dart Head - Ø 38mm (50g)
- 1 x Stainless Steel Dart Head - Ø 50mm (280g)
- Drop Height: 660mm & 1500mm
- Brass Weights - 2x5g, 8x15g, 8x30g, 8x60g, 2x15g, 8x45g, 8x90g

OPTIONAL ITEMS

IDM-F0008-OP1 - Kinetic Energy Option

The Kinetic Energy options are used to comply with ASTM 04272: Total Energy Impact of Plastic Films. The Falling Dart Impact Tester is mounted on top of the Kinetic Energy option. A catch box and two optical filter sensors measure the fall time difference after breaking the film and passing through, which is displayed on an instrument panel as time.

IDM-F0008-OP2 - Dart Rebound Protection tube



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 through regular calibration, service and replacement of defective parts. Talk to us about this today.