Falling Dart Impact Tester
Model: F0008

a measurable difference...

IDM instruments

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 weight (mass) of the dart falling from a specified height, which would result in 50% failure of specimens tested.
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 50gms to 2 kg to fracture them.

Applications:

- Flexible films

Features:

- Method A: Drop height – 660mm
- Bench-mounted system
- Pneumatic clamping of films
- Two Aluminium darts: Dart Head 38mm (50g)
- Adjustable dart drop height
- Foot Switch for dart release
- Brass weights supplied: 2x5g, 8x15g, 8x30g, 8x60g
- Stainless Steel Cutting Template 200mmx200mm

Benefits:

- Easy to use
- Fast results
- Accurate

Options:

- **Test Method B:** Dart Head - 50mm (280g)
  Drop Height – 1500mm
  Weights supplied - 2x15g, 8x45g, 8x90g

Kinetic Energy Option

- ASTM D4272: Total Energy Impact of Plastic Films. The Falling Dart Impact Kinetic energy option, is where the existing F0008 unit is mounted on top of the Kinetic energy option, where there is a catch box and two switches measuring the fall time difference which is displayed on a instrument panel as time.

Standards:

- ASTM D 1709
- JIS K7124
- AS/NZS 4347.6
- GB 9639
- ISO 7765-1

Dimensions:

- **H:** 1,140mm
- **W:** 440mm
- **D:** 500mm
- **Weight:** 30kg

10 - 11 Colrado Court
Hallam, Victoria 3803 Australia
Ph: +61 3 9708 6885
Fax: +61 3 9708 6770
Email: idm@idminstruments.com.au
Web: www.idminstruments.com.au