

## Falling Dart Impact Tester

### Model: F0008

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

### 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
- AS/NZS 4347.6
- ISO 7765-1
- JIS K7124
- GB 9639



### Connections:

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

### Dimensions:

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

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