

# Falling Dart Impact Tester

Model: F0008

*a measurable difference...*

**IDM**<sup>®</sup>  
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. 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 50gms 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
- Stainless Steel Cutting Template 200mmx200mm

## Applications:

- Flexible films

## Options:

- **F0008-M1:** Falling Dart Impact Tester - A Method  
2x Aluminium Dart Head - 38mm (50g)  
Drop Height - 660mm  
Brass Weights - 2x5g, 8x15g, 8x30g, 8x60g
- **F0008-M2:** Falling Dart Impact Tester - A & B Method  
1x Aluminium Dart Head - 38mm (50g)  
1x Stainless Steel Dart Head - 50mm (280g)  
Drop Height: 660mm & 1500mm  
Brass Weights - 2x5g, 8x15g, 8x30g, 8x60g, 2x15g, 8x45g, 8x90g
- **Custom Brass Weights:** Available upon request
- **F0008-OP1:** Kinetic Energy Option



A Method

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## Kinetic Energy Option:

ASTM D4272: Total Energy Impact of Plastic Films. The Falling Dart Impact Tester is mounted on top of the Kinetic Energy option. There is a catch box and two optical filter sensors measuring the fall time difference after breaking the film and passing through which is displayed on an instrument panel as time.

## A Method Dimensions:

- **H:** 1035cm
- **W:** 400mm
- **D:** 400mm
- **Weight:** 30kg

## A & B Method Dimensions:

- **H:** 1885mm
- **W:** 400mm
- **D:** 400mm
- **Weight:** 33kg

## Connections:

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

## Standards:

- ASTM D 1709
- ASTM D 4272
- JIS K7124
- AS/NZS 4347.6
- GB 9639
- ISO 7765-1

## Benefits:

- Easy to use
- Fast results
- Accurate