

## IM1F/P Impact Tester



A general purpose impact system for the impact testing of plastic film and plaques to defined quality standards such as: ISO6603, ISO7765, ASTM D3763 and D5628 and ASTM D1709.

The test measures the impact resistance and energy absorption characteristics of the specimen, typically for process control or quality control purposes.

As standard the system accommodates films and plaques up to 5mm thick and tests with impact energies of up to 150 Joules.

- Designed for ease of use to reduce operator training time.
  - A short, highly automated test cycle results in high throughput.
  - Very rugged high reliability design suited to production environments requiring continuous operation.
  - High degree of operator safety with full interlocking of access doors.
- Drop height range 50mm to 1000mm continuously variable.
  - Impact velocity range 1.0m/s to 4.4m/s continuously variable.
  - Impact energy range 1.5J to 150J.
  - High quality, laboratory grade instrumentation with traceable calibration.
  - Rigid construction reduces errors caused by machine compliance.
  - High resolution data acquisition.
  - Full force *vs.* deformation graph calculated and stored for each test.
  - Automatic calculation of all relevant results including failure deformation, failure energy.
  - User-defined documentation information stored with each test.
  - Automatic save of all data after each test, either to individual automatically named files, or to a test database.
  - On screen reporting of selected test results.
  - Standard report print-out.
  - Export of results to Excel or a text file for independent analysis.
  - Responsive life-time technical support.

### Standard Options

- Test geometries** Wide range of standard geometries. Custom geometries available and range of optional strikers.
- Sample stripper** For testing tough ductile specimens to extract the striker after impact.
- SIPS** Secondary specimen impacts prevented by second impact prevention system.