

IM1-P Plaque Tester



A dedicated system for the multi-axial impact testing of plastic and composite plaques to defined quality standards such as: ISO6603, ISO7765 and ASTM D5628.

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 120 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 250mm to 1200mm continuously

variable.

- Impact velocity range 2.2m/s to 4.85m/s continuously variable.
- Impact energy range 24J to 120J.
- 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 ASTM D1709, ASTM D3763, ASTM D5628, ISO6603, ISO7765 test geometries, custom geometries available. Range of optional strikers.

Sample stripper Required for testing tough ductile specimens to extract the striker after impact.