

FIT-01 is professionally applicable to the determination of impact resistance properties of pendulum of plastic films, sheets, composite films, aluminum foils and other materials.



Professional Technology

- Adjustable range and electronic measurement support various combinations of non-standard test conditions
- Pneumatic specimen clamping, pendulum release mechanism and horizontal adjustment system effectively reduce the errors caused by manual operation
- The system provides automatic statistics of testing data for users' convenient viewing
- The instrument is controlled by micro-computer, with LCD, menu interface and PVC operation panel.
- Support Lystem[™] Lab Data Sharing System for uniform and systematic management of test results and test reports

Test Principle

The impact resistance of films could be obtained by measuring the energy consumed by hemispheric impact head to make films ruptured, under the certain impacting conditions.

This instrument conforms to various national and international standards:

GB 8809-88, ASTM D3420, NF T54-116

Applications

This instrument is applicable to the determination of impact resistance of:

Basic Applications	Including plastic films, sheets and composite films e.g. PE/PP composite films, aluminized films, aluminum plastic composite films, nylon films for food or drug packages
Extended Applications	Including paper and paper board, e.g. aluminized paper for cigarette packages, and Tetra Pak materials
Extended Applications	Test range could be extended to 5J

Technical Specifications

Items	Specifications
Impact Energy	1J, 2J, 3J (Standard)
Resolution	0.001J
Impact Head Size	Φ25.4 mm, Φ19 mm, Φ12.7 mm (Customization is available)
Specimen Clamp Diameter	Φ89 mm, Φ60 mm
Specimen Size	100 mm x 100 mm or Φ100 mm

Gas Supply Pressure	0.6 MPa (outside of supply scope)
Port Size	Φ6 mm PU Tubing
Instrument Dimension	600 mm (L) x 390 mm (W) x 600 mm (H)
Power Supply	AC 220V 50Hz
Net Weight	64 kg

Configurations

Standard Configurations	Mainframe, Pendulums of 1J, 2J and 3J, Standard Impact Heads of Φ25.4 mm and Φ19 mm, Standard Clamp Plates of Φ89 mm and Φ60 mm (including O-ring), and Micro Printer
Optional Parts	Professional Software, Communication Cable, Customized Impact Head, and O-ring
Note	<ol style="list-style-type: none">1. The gas supply port of this instrument is Φ6 mm PU Tubing;2. Customers will need to prepare for gas supply.

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