

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
- Supports 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/T 8809, ASTM D3420, NFT 54-116

Applications

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

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| Basic Applications | Including plastic films, sheets and composite films e.g. PE/PP composite films, aluminized films, aluminum plastic composite films and 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

| Specifications | FIT-01 |
|--------------------------------|---|
| 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 |

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|-----------------------------|--------------------------------------|
| Specimen Size | 100 mm x 100 mm or Φ 100 mm |
| Gas Supply Pressure | 0.6 MPa (outside of supply scope) |
| Port Size | Φ 6 mm PU Tubing |
| Instrument Dimension | 600 mm (L) x 390 mm (W) x 600 mm (H) |
| Power Supply | 220VAC 50Hz / 120VAC 60Hz |
| Net Weight | 64 kg |

Configurations

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|--------------------------------|---|
| Standard Configurations | Instrument, Pendulums of 1J, 2J and 3J, Standard Impact Heads of Φ 25.4mm and Φ 19mm, Standard Clamp Plates of Φ 89mm and Φ 60mm (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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