

Falling Dart Impact Tester (Model FDI-01)

Falling Dart Impact Tester is applicable in the impact result and energy measurement of the falling dart from a certain height against plastic films and sheets with a thickness less than 1mm, which would result in 50% tested specimen failure.

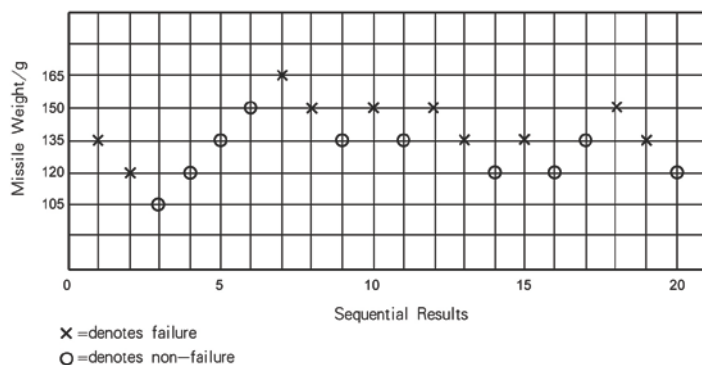
CHARACTERISTICS

- PLC control unit and touch screen operation
- Two test methods integration: A & B.
- Built-in observation light;
- Pneumatic specimen clamp and release;
- Falling dart electromagnetic suspension and automatic release;
- Two start modes: Manual and foot-pedal;
- Automatic testing status judgment;
- Multi-units result display and printing;
- Mini-printer;
- RS232 interface;



PRINCIPLE

At the beginning of the test, choose test method, and estimate an initial mass and Δm . Start test. If the first specimen fails, decrease the mass of the falling dart by decreasing weight of Δm . If the first specimen is not a failure, add the mass of the falling dart by increasing weight of Δm . Test as the same. In brief, increase or decrease the Δm according to whether the former specimen is a failure or not. After 20 specimens, calculate the total number of failure specimens N. If N equals to 10, test over. If N is less than 10, add specimen and continue to test until N is equal to 10. If N is more than 10, add specimen and continue the test until the number of non-failure specimen is 10. Then the tester calculates the test results automatically according to special formula.



TOUCH SCREEN INTERFACE

2014-11-25 09:48:29

FDI-01 Falling Dart Impact Tester



Copyright by Leading Instruments Co.,LTD

2014-11-25 09:49:29

FDI-01 Falling Dart Impact Tester

Main

Parameters

Test

Contact



Copyright by LEADING instruments Co.,LTD

2014-11-25 09:50:02

FDI-01 Falling Dart Impact Tester



Parameters

Mass g

ΔM g

Method

Print

Save



Copyright by LEADING instruments Co.,LTD

2014-11-25 09:50:36

FDI-01 Falling Dart Impact Tester



Test

Mass

Num.



ΔM

Failfure



Method

Non-Failure

Fail

Non-Fail



Copyright by LEADING instruments Co.,LTD

TECHNICAL INDEXES

Test Method: A, B (Optional)

Test Range: method A: 50~2000g

method B: 300~2000g

Accuracy: 0.1g (0.1J)

Specimen Clamping: pneumatic

Gas Source Pressure: 0.6MPa (Users provide gas source themselves)

Inlet Size: Φ8mm polyurethane pipe

Specimen Size: >150mm x 150mm

Power: AC 220V 50Hz

Net weight: 70kg

STANDARDS

ASTM D1709, ISO 7765, JIS K7124

Leading Instruments

Please Note:

Pictures used are for illustration purposes only and may differ from the actual product received.

Shinetime International and Leading Instruments are always dedicated to the innovation and improvement of product performance and function. Therefore, technical specifications are subject to change without further notice.

Shinetime International reserves the rights of final interpretation and revision.