

Dart Impact Tester



Product Info :

Dart Impact Tester is high quality and standard-based quality testing equipment that is popularly used in the plastic & films packaging industry to check the quality and evaluate the impact resistance strength of the packaging material. Plastic packaging film is used by a wide variety of packaging industries due to its durable nature, flexibility in stretching and higher impact resistance. As they have maximum use and are utilized by many industries for wrapping up their sensitive products or used in household routines, they tend to experience a lot of wear & tear during their use. The films must be resistant enough to avoid cracks of bursting easily against a sudden impact. The most concerning situation encountered by plastic film manufacturers is a vertical free fall of load taken by the plastic film. Such a scenario can lead to the bursting of films and result in a damaged product.

It is a popular and traditional method for evaluating the impact strength or resistance strength of plastic packaging films. In this, the specimen films are stretched clamped on a holder and a defined weighted dart is dropped freely from a defined height on it. Then on distinct parameters, the test can be repeated multiple times to observe the performance quality of the specimen film.

The Dart Impact Tester uses a single dart configuration to perform the test. It is a sturdily designed machine that conforms to international testing standards. This ensures that the test results are accepted globally and in a wide spectrum of industries. The specimen holding clamps are adjustable and allow a variety of specimens to get tested. The dart has a defined weight as per test standards. The dart holder works on a pneumatically managed electromagnetic technique.

TECHNICAL DATA :

- Model Number: PCDIT-1
- Quality Standard Followed: ASTM D-1709 & IS 2508
- Specimen Film Clamping Technology: Pneumatically Operated Clamps
- Dart Release Mechanism: Electromagnetic Support to hold Dart Weight with a Centering device to deliver reproducible drop
- Dart Weight: 2 Kg
- Display Counter: Six digit electronic counter
- Dart Shaft: Outside Diameter 6.5 mm and length 127.5 mm
- Dart & Weight Design: As per Standard Test Method A & B

FEATURES :

- Designed as per internationally acclaimed standards.
- The test results are accepted pan India and overseas.
- Dart is specifically designed as per standard test methods A & B to perform widely accepted procedures and deliver the best results.
- Equipped with a highly sensitive electromagnetic dart hold area which is responsible to keep the dart unless it dropped for the test. The hold and drop can be controlled by manipulating the electromagnetic power.
- Dart weight is designed to deliver a uniform load on the specimen.
- Strong Pneumatically Operated Clamps ensure a rigid hold of the specimen film.
- Secure shield cover around the specimen holder ensures the safety of the user or the surroundings when the dart free falls over the subject. It resists the dart to fall out of the testing equipment.
- A heavy metal base in the equipment delivers increased stability that is required when a heavy weight is free-falling on a specimen. Any equipment movement can generate errors in evaluation.
- The instrument conforms to the NABL norms and hence provides accurate results.
- The instrument has an inbuilt digital counter that keeps a track of falls performed during a test.
- The drop height can be adjusted as per test requirements.

Our Valuable Customer



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