

Standards : ISO 7765-1, ASTM D 1709

The impact resistance is an important property of thermoplastic of films.

The ISO 7765-1 and ASTM D 1709 standards describes a test on plastics films and sheet less than 1 mm in thickness, for determination of impact resistance by the free-falling dart method.

- Easy to use
- Quick sample mounting
- Robust design
- Easy maintenance
- Affordable price

Designed for testing according compatible standards and in-company test methods.

The pneumatic specimen clamping unit is operated with a foot switch.

The dart release is dual button operated.

The Dart-Tester is configurable between table top and floor mounting. For floor mounting, table posts are available as an option. When working with the 1500 mm drop height, this feature improves the working conditions for the operator.

For improved safety during operation, an optional polycarbonate protective tube is available.

The impact strength is achieved by means of a hemispherical free falling dart from a specified height, that would result in failure of 50% of the specimens tested.

Two methods are described. Method A employs a dart with 38.1 mm diameter hemispherical head, dropped from a height of 0,66 m, and method B employs a dart with a 50.8 mm diameter hemispherical head dropped from a height of 1,50 m.

The measurement technique is the stair case method.



Specifications

Sample dimensions – L x W	200 x 200mm
Instrument dimensions – W x D x H	303 x 310 x 1810mm
Weight	52kg
Power supply	Single phase 230 V 50hZ
Compressed air supply	Max. 6 bar, dry and oil free

Scope of supply

- Basic apparatus for 1500 mm drop height, without test options (to be selected)
- Template for specimens dimensions, 200 x 200mm
- IEC-type power cord
- Calibration certificate
- User manual
- CE certificate

Test options

- Test kit for ASTM D1709 and ISO 7765-1, Method A.
- Test kit for ASTM D1709 and ISO 7765-1, Method B.

Options

- Set (4) posts for floor mounting
- Polycarbonate protective tube
- Noise absorbing foam

Spares

- Mass locking nut
- Spare aluminium dart, 38.1 mm diameter
- Spare stainless steel dart, 50.8 mm diameter