

Impact Tester

Falling Dart Impact Tester

The Falling Dart Impact Tester determines the mechanical properties of packaging materials such as plastic film, laminates, and paper. The impact tester is designed to determine the amount of energy required for sample failure from a free falling dart.

The tester consists of a base with a sample clamping device and a rubber gasket to prevent sample slippage. The cylinder below the clamping device has 3 mm thick soft rubber to prevent dart damage. The dart is polished aluminum with a vertical shaft to add additional weights. The stand has vertical column made of steel with a release mechanism to attach the dart. The release mechanism is adjustable for positioning the height.



Standards

ASTM D 1709

ISO 7765-1

Ordering Information

Cat. No.	Description
5530	Dart Drop Impact Tester, A
5531	Dart Drop Impact Tester, A/B

Technical Specifications

Falling Height	Dart Diameter	Dart Weight	Weight	Dimensions
660 mm (26 in.)	38.1 mm (1.5 in.)	50 gm ± 0.5%	19 kg (42 lb)	100 x 60 x 49 cm (39.4 x 23.6 x 19.3 in.)
1500 mm (59 in.)	50.8 mm (2.0 in.)	300 gm ± 0.5%	48 kg (105 lb)	193 x 60 x 60 cm (76.0 x 23.6 x 23.6 in.)

Comes complete with:

Base with holding device, Vertical column, Dart, Release mechanism, Nylon clamp,

Additional weights:

For 5530:

10 pcs of 5 grams

8 pcs of 15 grams

8 pcs of 30 grams

8 pcs of 60 grams

For 5531:

8 pcs of 15 grams

8 pcs of 45 grams

8 pcs of 90 grams