

Drop Dart (Free-falling Dart) Impact Tester

Model: XJB-30



1, General introduction

XJB-30 mainly used to test plastic, film, or sheet thickness below 1mm, impact by falling dart, check the energy when 50% of test specimen broken. Conform with standard: ISO 7765, ASTM D1709, GB 9639.

Scope:

Falling dart impact is a traditional method for evaluating the impact strength or toughness of a plastic film. This test uses a single dart configuration and a single drop height, while varying the weight of the dart. Test results can be used either as a quality control evaluation or for end use comparisons.

Specimen size:

Film samples that can be cut to 230 mm x 230 mm (9" x 9") specimens
A minimum of 30 specimens are required for the test

2, Principle

ISO 7765-1: Plastics film and sheeting -- Determination of impact resistance by the free-falling dart method -- Part 1: Staircase methods

ASTM D1709: Standard Test Methods for Impact Resistance of Plastic Film by the Free-Falling Dart Method.

3, Main technical specification

Model	XJB-30
Dart weight	A method: R19±1mm (2 pcs) B method: 25±1mm (1 pc)
Weight	50—2000g (5g increment) 5g (5 pcs), 15g (15 pcs), 30g (10 pcs), 45g (10 pcs), 60g (10 pcs), 90g (15 pcs)
Specimen clamper	OD 150mm, ID 125mm
Max. energy	30J
Impact height	1500mm
Power	220V, 50HZ
Dimensions	650mm×650mm×2600mm
Weight	150Kg
Standard Accessories	Loadframe, Dart head, weight unit, tools, power cord, manual etc.

