



FD-1709 Falling Dart Impact Tester

The fd-1709 falling dart impact tester determines the impact resistance of plastic film using a free-falling dart. The equipment performs to recognised international test standards including astm d1709, and iso 7765.

The FD-1709 is a cost effective solution for testing impact resistance of sheet materials. Bench mounted or floor standing, with drop heights and darts for ASTM D1709 Methods A & B. Operation is by push button, and an optional touch screen provides a standard operating procedure and test traceability. Impact resistance is expressed as the mass of a free falling 'missile' that would cause

failure of 50% of samples tested. A simple pass/fail procedure, combined with varying weights enables calculation of the resulting mass. A variety of factors can affect impact resistance including material thickness, uniformity of thickness, sample clamping, dart weight and drop height.

Applications

Plastic film, packaging films, paper, paperboard, corrugated board, foils, and other sheet like materials.



UK & INTERNATIONAL

RDM Test Equipment Ltd.
39 Gold Nurseries Business Park
Jenkins Drive
Elsenham
Hertfordshire
CM22 6JX

Tel: +44 (0)1279 817171

Email: sales@rdmtest.com

Website: rdmtest.com

AMERICAS

RDM Test Equipment LLC.
441 Old Hwy 8 NW
Suite 203
New Brighton
Minneapolis
MN55112
USA

Tel: +1 651 766 2565

Mobile: +1 651 485 2372

Email: sales@rdmtest.com

Website: rdmtest.com

Features & benefits

Push button operation or optional digital touch screen panel which guides the user and calculates test results.

Safe 2 handed operation of pneumatic sample clamp.

Displays trend of results, next weight and final results.

Manual sample counter, or touch screen display of results.

Conforms to ASTM D1709 and IS7765 for method A and method A & B.

Models

FD-1709A: supplied complete with 1.5" dome ended dart, fixed 0.66m drop height and weight set (2 x 5g, 8 x 15g, 8 x 30g, 8 x 60g).

FD-1709B: supplied complete with 1.5" and 2" dome ended darts, drop heights of 0.66m and 1.524m, and weight set (4 x 5g, 8 x 15g, 8 x 30g, 8 x 45g, 8 x 60g, 8 x 90g)

Item FD-1709/Touch: built-in touch screen for test set-up and results.

Item FD-1709/Cab: Floor mounted cabinet.

Item FD-1709/KitB: Method B testing kit for retrofitting to FD-1709A to extend capability to Method B testing. Includes extension post for 0.66m and 1.524m, 2" dart and additional weights (2 x 5g, 8 x 45g, 8 x 90g).

Physical specifications

Model FD-1709A: W x D x H: 510mm x 480mm x 1,020mm

Model FD-1709B: W x D x H: 510mm x 480mm x 1,870mm

Floor mounted cabinet: W x D x H: 510mm x 480mm x 450mm

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