

Ball Tack Tester (Rolling Ball Method)

[ASTM D3121](#) / [PSTC 6](#)

Ball Tack Tester is used to test tackiness of the pressure sensitive adhesive coated on tape or labels.

Principle:

A steel ball is released from a designated starting point on an inclined grooved path. The path is set at a specific angle relative to the base of the test platform. Just below the end of this inclined path, a piece of pressure-sensitive tape (with the tacky side facing up) is affixed. As the rolling ball touches down, it achieves maximum velocity and continues rolling over the tacky surface. The adhesive on the tape resists the ball's motion, causing it to eventually come to a stop. Notably, the shorter the distance the ball travels, the higher the tackiness of the adhesive coating.



Salient Features

- User friendly ball retaining and releasing mechanism
- Easy to position sample-locating-strip
- Spirit level (3 Axis) for leveling the instrument in all directions
- Ball catch section with catch pit for run-away balls (for very poor tack samples).
- User friendly reading system

Interpretation of Quality

The measurement is in “mm” of “inch” of distance from touch-down point on the sample.

- 1) 0-100 mm is High – Medium Tack.
- 2) 100 – 200 mm is Medium – Low Tack.
- 3) 200 – 300 mm is Low – Poor Tack.

Based on your application, you need to find the optimum level of Tackiness desired.

Example : For BOPP Packing Tapes, the ideal tackiness level is seen at 100 – 150 mm

If the tackiness reading is greater than 150 mm (tack is Low), then the Tape will not attach to the carton surface properly or will peel away easily.

If the tackiness reading is less than 100 mm (tack is High), then the Tape will attach to the carton surface, but may also slip off due to excess adhesive coating.

On the other hand, Adhesive Medical Tapes will need higher tack and they serve a very different application.

You can use this equipment to compare 2 different types of adhesives / tapes / suppliers.

Specifications :

Angle of inclination :	21° 30' (21.5°)
Ball Diameter :	11mm (7/16")
Sample Mounting :	On Glass Plates (Float Glass)
Level Check :	Spirit Level device provided with the equipment.
Travel Measurement :	By sliding an engineer's square on the mounted scale.

Included with Domestic Models :	Included with Export Models :
<ol style="list-style-type: none">1) Spirit Level Device.2) Engineer's Square.3) Stainless Steel Balls (5 pcs).4) Glass Plates (3 pcs).	<ol style="list-style-type: none">1) Spirit Level Device.2) Engineer's Square.3) Stainless Steel Balls (10 pcs).4) Glass Plates (10 pcs).

DQ/IQ/OQ Documentation are supplied with pharma specific models (SKUs starting with DP or EP).

Warranty : 12 Months (Ex-Factory)

Utilities Required : None

How to Order ?

Select the Equipment Part Code (SKU) from the options given below.

<u>SKU</u>	<u>Description</u>
DN-BTT-STD	Ball Tack Tester. Standard Model. Non-Pharma Customer. India Only.
DP-BTT-STD	Ball Tack Tester. Standard Model. Pharmaceutical Customer. India Only.
EN-BTT-STD	Ball Tack Tester. Standard Model. Non-Pharma Customer. Outside India Only.
EP-BTT-STD	Ball Tack Tester. Standard Model. Pharmaceutical Customer. Outside India Only.

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