

Peel and Friction Testing

KASONTTEST®



Introduction

- Peel adhesion and friction testing are crucial quality control measures for pressure-sensitive adhesive (PSA) tapes, ensuring their performance in various applications. These tests evaluate the strength of adhesion between the tape and a substrate, helping manufacturers meet industry standards and guarantee product reliability.
- This is a high-precision Peel Adhesion and Friction Tester designed for accurate and repeatable testing, compliant with international standards such as ASTM D3330 and ASTM D1000.

Standards

1. ASTM D3330- This standard outlines six different test methods for measuring the peel adhesion strength of pressure-sensitive tapes. The most common methods include 90-degree peel and 180-degree peel tests.
2. ASTM D1000- Specifies the test methods for evaluating the adhesion strength of electrical pressure-sensitive tapes, ensuring their reliability in electrical insulation application

90-Degree and 180-Degree Peel Tests**90-Degree Peel Test**

In the 90-degree peel test, the tape is applied to a standardized test panel and peeled back at a controlled speed while maintaining a 90-degree angle. This method is ideal for testing tapes used on rigid surfaces, providing an accurate measure of adhesive strength.

Commonly used for packaging tapes, labels, and industrial adhesives.

Ensures consistent adhesion performance on different substrates.

Provides insights into bond strength and durability under varying conditions.

180-Degree Peel Test

In the 180-degree peel test, the tape is adhered to a test panel and peeled back at a 180-degree angle, completely reversing its direction. This

test is widely used for evaluating high-bond adhesive tapes and materials with flexible backings.

Frequently applied for double-sided tapes, medical adhesives, and protective films.

Offers precise data on adhesion force and residue behavior.

Helps manufacturers optimize tape formulation and backing materials.

Friction Testing for PSA Tapes

Friction testing measures the resistance of a tape when sliding against a surface, ensuring optimal performance in various applications. This

test is crucial for understanding the handling properties of PSA tapes in automated processing and manual applications.

Evaluates surface interaction and ease of application.

Determines the coefficient of friction to optimize material performance.

●Ensures consistent product quality across different batches.

FOCUS IN MATERIAL TEST

KASONTTEST®

JINAN KASON TESTING
EQUIPMENT Co, LTD.

DuandianIndustrial Park , Jingshi Road, Jinan City,China.

P: +86 159 1008 1986

E: admin@jnkason.com | W: www.syjlab.com

