ICI / Mace Snag Tester

Standards: ASTM D3939/D3939M-2013 (2017), JIS L1058, GB/T 11047-2008

- ULTIMATE USER-FRIENDLINESS
- LEADING DEPENDABILITY AND RELIABILITY
- STRICT COMPLIANCE WITH INDUSTRY STANDARDS
- STOCKED CONSUMABLES AND SPARES
- TRUSTED AFTER SALES TECHNICAL SUPPORT
- LIFETIME PRODUCT SUPPORT ADVANTAGE

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Description

The Fabric Textile 4-position ICI / Mace Snag Tester from NextGen was created for manufacturers and quality control professionals, designed to quickly assess the likelihood of fabric snagging under normal wear conditions. Utilizing a precise and methodical approach, this tester simulates real-world scenarios where yarns are pulled from the fabric, providing an accurate measure of a fabric's durability.

ICI / Mace Snag Tester Features

- Realistic Snag Simulation: Replicates the unpredictable snagging that fabrics might experience during regular use, ensuring a thorough evaluation.
- Accurate Assessment: Through controlled rotation and hammer action, the tester creates snags on the fabric, allowing for a detailed comparison against standard reference fabrics.
- Comprehensive Rating System: Provides a snagging rating that helps manufacturers understand the fabric's performance, aiding in the selection of materials for high-traffic applications such as clothing and upholstery.

- User-Friendly Operation: Designed for ease of use, the Mace Snag Tester allows for quick sample preparation and consistent results.

Watch Video

Watch the ICI / Mace Snag Tester product video.

WATCH ON YOUTUBE

ICI / Mace Snag Tester Working Principle

The Mace Snag Tester is designed to simulate the snagging that fabrics might experience during regular use. Here's a simplified explanation of how it works:

1. **Sample Preparation**: A piece of fabric is cut to a specific size and placed on a rotating drum inside the tester.
2. **Hammer Placement**: A hammer, which is attached to the machine by a chain, is placed so that it rests on the surface of the fabric sample.
3. **Drum Rotation**: The drum starts rotating at a constant speed. As it turns, the hammer is dragged along the fabric, but because it's suspended by a chain, it flips and bounces around unpredictably.
4. **Snagging Action**: As the hammer moves across the fabric, it catches on the fabric's fibers, creating snags or pulls (i.e., it pulls threads out of the fabric).
5. **Test Duration**: The drum continues to rotate for a set number of cycles, allowing the hammer to create snags across the entire surface of the fabric sample.
6. **Evaluation**: Once the test is complete, the fabric is removed, and the number and severity of the snags are assessed. This is typically done by comparing the tested fabric to a set of standard reference fabrics that show different levels of snagging.
7. **Rating**: The fabric is then given a snagging rating based on how it compares to these standards, indicating how likely it is to snag during normal wear

ICI / Mace Snug Tester Technical Specifications

Model	4-position ICI / Mace Snag Tester
Number of positions	4
Rotary drum size	Diameter of 82mm (including outer rubber thickness of 3mm), width of 210mm
Rotation speed of the drum	60 ± 2r/min
Total weight of the nail	160+10g (including 11 equally spaced needles)
Needle	Exposed length 10mm, tip radius: R0.13mm
Fixed guide rod	Working width 125mm, diameter 10mm
Weight	243 lbs / 110 kg

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