## a measurable difference...

## Carpet Peel & Tuft Tester Model: C0051

**IDM** instruments

The Carpet Peel & Tuft tester is a motorised instrument designed to measure:

- The force required to peel backing material from carpet. (Eg. The binding force between the carpet pile and backing)
- The force required to withdraw a single tuft, or loop of pile, from the carpet.

Tuft retention property is also an important factor in the useful life of a tufted or traditional carpet. Carpets which are badly constructed or poorly backed may lose complete tufts in some situations, for example on stairs. In loop pile carpets, a good bind is necessary to prevent long runner loops formed.

### **Applications:**

- Textile floor covering which has a tuft (cut) loop pile yarn structure
- Woven: individual loops
- Woven: individual cut tufts

#### **Features:**

- Portable motorised stand
- Digital Force Gauge:
  - o 50 lbF, 25 kgF, 250 N
  - o Peak memory for tensile loads
  - Accuracy: ± 0.3% of full scale ± digit
  - Safe overload: 150% accuracy
  - o Selectable units of measurement: kg, N, or lbs
  - Push-button calibration
  - o IPM Intelligent Power Management system
  - o Battery or AC operation
- Sample grips for peel testing
- Tuft withdrawal fixtures
- Loop fixtures



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## **Carpet Peel & Tuft Tester** Model: C0051

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# **1DN** instruments



#### PEEL:

The backing of the carpet piece is fastened to the instrument, by sample grips. One grip is secured to the base of the motorised test stand and the other is secured to the digital force gauge. The force is raised at a steady rate and the digital gauge indicates the tension force as the sample backing is peeled from the carpet.

#### **TUFT / LOOP WITHDRAWAL:**

The carpet sample is held down by a steel plate, and a pair of surgical forceps is clamped to one end of the tuft to be tested, or a hook threaded through one loop.

The forceps or hook are linked to the digital force gauge, which is raised at a steady rate. Tension on the tuft or loop is increased and the digital force gauge indicates the maximum force needed to withdraw the tuft or loop.

**Tuft Withdrawal Fixture** 

#### **Options:**

- RS-232, Mitutoyo and analog outputs
- MESURgauge Software
- Serial cable, gauge to PC

#### Standards:

- AS 2111.15
- ASTM D1335
- BS 5229:1975 (1996)
- ISO 4919:1978
- IWS 202



Loop Withdrawal Fixture



• H: 535mm

- D: 300mm
- Weight: TBA

**Dimensions:** 

#### **Connections:**

• Electrical: 220/240 VAC @ 50 HZ or 110 VAC @ 60 HZ (please specify when ordering)

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