

# TG 5012

## Tuft Bind Grip to ASTM D 1335 for Pile Yarn Floor Coverings (Cut Pile and Loop Pile Tuft Bind Testing)

The tuft bind grip (model TG 5012) is a multi-purpose grip designed to assess the performance of both cut pile and loop pile yarn floor coverings. The grip conforms to ASTM D 1335, which covers the measurement of tuft bind i.e. the force required to pull a tuft completely out of a pile yarn floor covering specimen.

The grip consists of a cylindrical metal sample holder mounted in a U-shaped bracket, upper crossbar, forceps for use with cut pile and a hook arrangement for use with loop pile.

### Grip Arrangement for Testing Cut Pile

The cylindrical sample holder is freely rotating and measures 150 mm (6 in) in length and 40 mm (1.5 in) in diameter with a 50 mm (2 in) long section of the tubing cut away. The holder is mounted in a substantial U-shaped bracket and fixed to the lower eye end of the test machine. A cut pile floor covering sample measuring 150 mm x 200 mm (6 in x 8 in) is looped completely around the sample holder and both ends are held firmly in place by a clamping bar tightened by two thumbscrews.

To perform the test, a tuft, approximately at the centre of the sample, should be selected and gripped with forceps (seizers) using the first clamp setting since over-tightening may damage the tuft. The moving crosshead on the test machine is driven down until the handles of the forceps can be engaged on the crossbar. The test can now be performed. Any misalignment of the forceps and samples is self-corrected by the sample holder moving to the side and/or rotating.

### Grip Arrangement for Testing Loop Pile

To test loop pile, the same cylindrical sample holder is used as described above and the sample is fixed in the same way.

Instead of the forceps, a double-ended stainless steel wire loop hook with a minimum diameter of 0.8 mm (1/32 in) is used. The hook is passed through a selected loop at approximately the centre of the sample. The crosshead is driven down until the other eye of the hook can be engaged on the boss at the centre of the crossbar.

### Capacity

1 kN (225 lbf)

### Packaging

Cylindrical sample holder, sample clamping bar, upper crossbar fixture with interchangeable forceps and wire loop hook.

### Applicable Standards

ASTM D 1335 (1998) Standard Test Method for Tuft Bind of Pile Yarn Floor Coverings.

**SPECIFICATION**  
SS-MT-xxxx-0202  
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## Applications

1. Tuft bind testing of cut pile floor coverings  
(a pile yarn floor covering is defined as having a pile composed of adjacent tufts which are separated or cut).
2. Tuft bind testing of loop pile floor coverings  
(a pile yarn floor covering is defined as having a pile of uncut loops)

## Specifications

Maximum Capacity:	1 kN (225 lbf)
Minimum Loadcell:	20 N (4.5 lbf)
Cylindrical Sample Holder Dimensions:	Length: 150 mm (6 in) Diameter: 40 mm (1.5 in)
Loop Hook Diameter:	0.8 mm (1/32 in) minimum
Application ForcesMax. Sample Dimensions:	150 mm x 200 mm (6 in x 8 in)
Eye End Diameter:	5/8 in
Total Weight:	1.4 kg (3.1 lb) (includes all grip components)
Temperature Limits:	Ambient

## Ordering Information

Model	Part No.	Description
TG 5012	01/3131	Tuft Bind Grip to ASTM D 1335 for Pile Yarn Floor Coverings

# AMETEK®

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