

ENTANGLEMENT TEST

Entanglement Definition:

Interlaced filaments located at various intervals along the length of a yarn.

Purpose:

To determine the level of and variation of entanglement in false-twist textured yarns--both in single and multiple yarn versions.

Test Equipment:

1. Take five meters off before testing.
2. Board or tabletop with dark, flat, smooth background and a measured scale of one meter divided into 10-CM sections.
3. Laboratory weights.
4. Clamps and/or tape.

Test Procedure:

1. Securely fasten (clamp) a 110-CM yarn sample at zero CM on the test scale.
2. Tension the unclamped end of yarn with 1.0 gram/denier load for 15 seconds.
3. Remove the load and allow the yarn to relax for 15 seconds.
4. Secure the unclamped end of yarn at exactly one meter from the clamped end. Disregard the excess yarn over one meter.
5. Visually count the entanglements for each 10-CM section.
6. Total the values for the 10-CM sections and express as entanglements/meter. To obtain range ("R" value), subtract the individual low reading from individual high reading and report "R" value for each sample.
7. Wasting as little yarn as possible from the test package, repeat procedure for one additional test.