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Australian Standard®

Methods of test for textile floor coverings

Method 11: Determination of total pile mass per unit area by complete dissection of textile floor coverings

1 SCOPE This Standard describes the procedure for determining total pile mass per unit area by complete dissection of textile floor coverings. The total pile mass per unit area can be expressed at its equilibrium condition or in terms of clean conditioned mass at agreed commercial allowances. The method is applicable to textile floor coverings which have a cut or loop pile, including multi-frame Wilton carpets. It is not applicable to textile floor covering wherein the yarn is not readily and totally separable from the rest of the structure, as occurs with most adhesive backed structures. The method may also be applied to tufted textile floor coverings at the stage of manufacture prior to backcoating.

2 REFERENCED DOCUMENTS The documents below are referred to in this Standard.

- AS
- 2001 Methods of test for textiles
- 2001.1 Method 1: Conditioning procedures
- 2119 Method for sampling and cutting specimens of textile floor coverings for testing
- BS
- 1752 Specification for laboratory vented or fritted filters including porosity grading
- 2071 Soxhlet extractors

3 PRINCIPLE A known area of the textile floor covering is dissected completely; the pile yarn is separated from the other components and weighed. The result may be expressed at its equilibrium condition or a sample of the dissected yarn may be cleaned and dried and the result corrected for agreed commercial allowances.

4 DEFINITIONS For the purpose of this Standard, the definitions below apply.

4.1 Total pile mass per unit area—the mass of pile yarn in the given area, including that forming the base of the tufts or held in the backing, determined in equilibrium with the standard atmosphere for testing.

- NOTES:
- 1 Total pile mass does not include the mass of any backing compound adhering to the pile yarn.
 - 2 For Wilton carpets, total pile mass includes buried pile yarn, but excludes dead frame yarn.

4.2 Buried pile yarn (Wilton carpet)—the pile yarn in a multi-frame Wilton carpet in those parts of the carpet where it is held in the substrate and has not been raised to the surface by the Jacquard mechanism. It excludes all yarn forming the surface pile and the pile root.

4.3 Dead frame yarn (Wilton carpet)—yarn from a complete frame which is present in every end in the carpet and which has been programmed so that the yarn never appears on the use surface at any point. It remains held in the substrate for its complete length, solely for structural purposes.

4.4 Working pile yarn (Wilton carpet)—all of the pile yarn which, anywhere along its length, forms part of the surface pile. This includes buried pile yarn held in the substrate in parts of the carpet where not required in the use surface as part of the pattern. It excludes dead frame yarn.

