Australian Standard™

AS 4878.8

Methods of test for coated fabrics

Method 8: Determination of coating adhesion

PREFACE

This Standard was prepared by the Joint Standards Australia/Standards New Zealand Committee TX-005, Coated Fabrics as an Australian Standard to supersede AS 1441.5—1973, *Methods of test for coated fabrics*, Method 5: *Determination of coating and ply adhesion*, which was withdrawn in 1997.

The Standard is identical with and has been reproduced from ISO 2411:2000, *Rubber- or plastics-coated fabrics—Determination of coating adhesion.*

The objective of this Standard is to provide manufacturers and testing bodies with a suitable method for determination of the coating adhesion of rubber- or plastics-coated fabrics.

The term 'informative' has been used in this Standard to define the application of the annex to which is applies. An 'informative' annex is only for information and guidance.

As this Standard is reproduced from an International Standard, the following applies:

(a) In the source text, 'this International Standard' should read 'this Australian Standard'.

(b) A full point should be substituted for a comma when referring to a decimal marker.

References to International Standards should be replaced by references to Australian Standards, as follows:

Reference to International Standard		*Australian Standard*	
EN ISO		AS	
2231	Rubber- or plastic-coated fabrics—Standard atmospheres for conditioning and testing (ISO 2231:1989)	—	
2286	Rubber- or plastics-coated fabrics—Determination of roll characteristics—	4878	Methods of test for coated fabrics
2286-1	Part 1: Method for the determination of length, width and net mass (ISO 2286:1998)	4878.2	Part 2: Determination of length, width and net mass
ISO			
5893	Rubber- and plastics test equipment—Tensile, flexural and compression types (constant rate of traverse)—Description	—	
EN ISO			
7500	Metallic materials—Verification of static uniaxial testing machines	—	
7500-1	Part 1: Tension/compression testing machines—Verification and calibration of the force-measuring system		

INTRODUCTION

Knowledge of the strength of adhesion between the coating and the adjacent layer is important as an inadequate adhesion strength can often result in failure of the product due to delamination.

NOTE Persons using this standard should be familiar with normal laboratory practice. This standard does not purport to address all of the safety problems, if any, associated with its use. It is the responsibility of the user to establish appropriate safety and health practices and to ensure compliance with any national regulatory conditions.

AUSTRALIAN STANDARD

1 Scope

This European Standard specifies a method of determining the coating adhesion strength of coated fabrics.

2 Normative references

This European Standard incorporates by dated or undated reference, provisions from other publications. These normative references are cited at the appropriate places in the text and the publications are listed hereafter. For dated references, subsequent amendments to or revisions of any of these publications apply to this European Standard only when incorporated by amendment or revision. For undated references the latest edition of the publication referred to applies.

EN ISO 2231, *Rubber- or plastics-coated fabrics — Standard atmospheres for conditioning and testing. (ISO 2231:1989)*

EN ISO 2286-1, *Rubber- or plastics-coated fabrics — Determination of roll characteristics — Part 1: Methods for the determination of length, width and net mass (ISO 2286:1998)*

ISO 5893, *Rubber and plastics test equipment —Tensile, flexural and compression types (constant rate of traverse) — Description*

EN ISO 7500-1, *Metallic materials — Verification of static uniaxal testing machines — Part 1: Tension/compression testing machines — Verification and calibration of the force - measuring system*

3 Terms and definitions

For the purposes of this European Standard the following terms and definitions apply.

3.1
delamination
partial or whole separation of two or more, of the component layers of a coated fabric. This can be either a fabric to polymer separation or separation within the actual polymeric layer

3.2
coating to fabric peel
separation with no coating polymer residue remaining on the substrate

3.3
partial film tear
delamination leaving patches of coating polymer still adhering to the substrate