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**Test method for leatherette-Determination of azodicarbonamide
content**

人造革合成革试验方法 偶氮二甲酰胺含量的测定

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Table of Contents

Preface... III 1 Scope	1
2 Normative references	1
3 Terms and Definitions	1
4 Principle	1
5 Reagents and Materials	1
6 Instruments and Equipment	2
7 Test steps	2
7.1 Sampling	2
7.2 Sample extraction	2
7.3 Determination	2
8 Result calculation	3
9 Detection limit	3
10 Precision	3
11 Test Report	3

Foreword

This document is in accordance with the provisions of GB/T 1.1-2020 "Guidelines for standardization work Part 1: Structure and drafting rules for standardization documents" Drafting is required.

Please note that some of the contents of this document may involve patents. The issuing organization of this document does not assume the responsibility for identifying patents.

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Test methods for artificial leather and synthetic leather Determination of azodicarbonamide content

1 Scope

This document describes the determination of azodicarbonamide in artificial leather and synthetic leather by HPLC.

This document is applicable to the determination of azodicarbonamide content in artificial leather and synthetic leather.

2 Normative references

GB/T 6682

3 Terms and definitions

There are no terms or definitions that require definition in this document.

4 Principle

Azodicarbonamide in artificial leather and synthetic leather was extracted and concentrated by stirring with dimethyl sulfoxide, acetone and dichloroethane in a water bath.

The analysis was qualitative by retention time of azodicarbonamide standard and quantitative by external standard method.

5 Reagents and Materials

5.1 Azodicarbonamide standard ($C_2H_4N_4O_2$, CAS No.. 1237773). purity greater than

99.0% (mass fraction).

5.2 Dimethyl sulfoxide. analytical grade.

5.3 Acetone. chromatographic grade.

5.4 Ethylene dichloride. chromatographic grade.

5.5 Acetonitrile. analytical grade.

5.6 Mixed solvent. Measure 30 mL of dimethyl sulfoxide, 770 mL of acetone, and 200 mL of dichloroethane to prepare a mixed solvent.

It should be stored at room temperature and is valid for one month. 5.7 Nitrogen. $\geq 99.99\%$.

5.8 Water. shall comply with the requirements for Grade II water in GB/T 6682.

5.9 Azodicarbonamide standard stock solution (1.0 mg/mL). Accurately weigh an appropriate amount of azodicarbonamide standard and prepare a standard stock solution with a content of 1.0 mg/mL. Store at room temperature and the validity period is one month.

5.10 Azodicarbonamide standard solution. Take an appropriate volume of azodicarbonamide standard stock solution and dilute it with acetonitrile to prepare the required A series of standard solutions of different amounts are prepared immediately before use.

5.11 Microporous filter membrane. 0.45 μm .