ISO 16190:2021-11 (E)

Footwear - Critical substances potentially present in footwear and footwear components - Test method to quantitatively determine polycyclic aromatic hydrocarbons (PAHs) in footwear materials

Contents

Page

Foreword ... **iv**

Introduction ... **vi**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **1**

4 Principle ... **1**

5 Reagents ... **1**

6 Apparatus ... **5**

7 Sample preparation ... **5**

8 Procedure ... **5**

8.1 Extraction ... 5

8.2 Optional: Solid-phase extraction (SPE) clean-up ... 6

8.3 Determination by GC-MS or GC-MS/MS ... 6

9 Expression of results ... **6**

9.1 Determination of the PAH content ... 6

9.1.1 For each PAH ... 6

9.1.2 When a sum of PAHs is requested ... 6

9.2 Performance of the test method ... 7

10 Test report ... **7**

Annex A (informative) **Examples of chromatographic conditions for GC-MS and GC-MS/MS** ... **8**

Bibliography ... **11**