ISO 48-4:2018 (E)

Rubber, vulcanized or thermoplastic — Determination of hardness — Part 4: Indentation hardness by durometer method (Shore hardness)

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Principle

5 Choice of durometer

6 Apparatus

- 6.1 Durometer types A, D and AO
- 6.1.1 Pressure foot
- 6.1.2 Indentor
- 6.1.3 Indicating device
- 6.1.4 Calibrated spring
- 6.1.5 Automatic timing device (optional)
- 6.2 Durometer type AM
- 6.2.1 Pressure foot
- 6.2.2 Indentor
- 6.2.3 Indicating device
- 6.2.4 Calibrated spring
- 6.2.5 Automatic timing device (optional)
- 6.3 Stand
- 6.4 Durometer spring force calibration

7 Test pieces

- 7.1 General
- 7.2 Thickness
- 7.3 Surface

8 Conditioning and test temperature

9 Procedure

- 9.1 General
- 9.2 Test time
- 9.3 Measurements

10 Calibration and checking

- 10.1 Calibration
- 10.2 Checking using standard rubber blocks1 1 Standard rubber hardness blocks are available from a number of instrument manufacturers and accredited test laboratories.

11 Precision

12 Test report

Annex A (informative) Precision

- A.1 General

A.2 ITP in 1985
A.3 ITP in 2004 (Precision results for the type AM durometer compared to that of Micro IRHD testing)
A.4 ITP in 2007
A.4.1 Programme details
A.4.2 Precision results

Page count: 15