

# 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 blocks <sup>1</sup> 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**