



## **Shore A Hardness Tester Range: 0-100HA Resolution: 0.5HA Accuracy: no more than $\pm 1\%$**

The **Shore A** is a precision digital durometer designed to measure the hardness of medium-grade materials such as rubber, plastic, leather, wax, and similar polymers. Built with a flat cone-shaped indenter measuring 0.79 mm in diameter and a 35° included angle, this instrument follows the Shore A standard, ensuring reliable and consistent results. It offers a wide measurement range of 0 to 100HA with a fine resolution of 0.5HA, making it suitable for both industrial and laboratory use. The tester features a digital LCD screen for clear readouts, along with intuitive buttons for powering on/off and resetting the value to zero. Its versatile design allows dual-mode operation—it can be used as a desktop unit by placing it steadily on a flat surface for controlled testing, or as a portable handheld tool, ideal for field testing and quality checks.

The instrument's working principle is based on the resistance force exerted by the test material against the sensing pin. Once pressure is applied, the sensor captures the force feedback, which is then translated into a digital hardness value. To ensure accuracy, the tester requires the sample to have a thickness of at least 6 mm or be layered to exceed the 18 mm pressure depth. The reading is taken by pressing the indenter into three different points on the material and calculating the average. For handheld use, the device must be pressed evenly against the surface for one second, after which it displays the hardness reading. A low battery warning is indicated by flashing digits on the screen, and replacing the battery is quick and straightforward with the removable cap on the back.

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### **Applications:**

This durometer is widely used in industries such as:

- **Rubber and Plastics manufacturing**
- **Automotive components (seals, gaskets, bushings)**

- **Footwear (soles, foam padding)**
  - **Leather goods and sporting equipment**
  - **Laboratories for polymer testing and R&D**
  - **Flooring, wax, and grease material testing**
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#### Key Features:

- **Digital LCD Display** with high visibility
- **Measurement Range:** 0–100HA for medium hardness materials
- **Resolution:** 0.5HA, offering precise and sensitive readings
- **Flat Cone Indenter** (0.79mm tip) with 35° included angle for Shore A materials
- **Dual-Use Design** – suitable for desktop testing or portable fieldwork
- **Simple Operation:** Hold, ON/OFF, and ZERO buttons for quick usage
- **Low Battery Indicator** with easy battery cap removal
- **Robust & Lightweight Housing** for durability and ease of handling
- **Auto-Hold Function** for reading stability
- Conforms to common standards used for hardness testing in rubber and plastic industries

#### Technical Specifications:

Specification	Details
Type	Digital Shore A Durometer
Indenter Shape	Flat Cone Point (0.79 mm)
Included Angle	35°
Measuring Range	0–100 HA
Resolution	0.5 HA
Display Type	LCD Digital Display

Specification	Details
Operation	Handheld & Desktop
Battery Type	Button Cell (replaceable)
Battery Warning	Flashing digits indicate low battery
Material Compatibility	Rubber, Plastic, Leather, Wax, Grease
Sample Thickness	≥6mm or multiple layers (≥18mm pressure depth)

**Package Includes:**

- 1 × Digital Shore A Durometer
- 1 × Protective Case
- 1 × User Manual (English)