

iShore-75 Shore Durometer



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Features and Applications

Product Features

- Complies with the positive and negative force requirements of GB/T 38119 and ISO 48-9.
- Equipped with USB communication function for real-time data upload.
- Large-capacity lithium battery for long working hours.
- With average value function, the number of averaging times can be set from 0 to 9.
- With time hold function, the maximum hold time is 30 seconds, meeting the requirements of GB/T 531.1 and ISO 48-9.
- With zero reset function to improve the accuracy of measurement results.
- 1.54-inch OLED display with clear presentation, low power consumption and no backlight required.
- Adopts digital displacement sensor instead of analog displacement sensor to ensure test accuracy.
- Can be connected with a constant load stand for high-precision and stable testing.
- Complies with the latest implementation standards: GB/T 38119, GB/T 2411, JJG 304, GB/T 531.1, GB/T 38243, ISO 48-9, ISO 7619, ISO 21509.



Product Applications

- Rubber product testing sealing rings, foot pads, shock-absorbing rubber, tires, rubber hoses, rubber seals, etc. Shore a is used to judge whether the hardness and elasticity meet the standards.
- Soft plastics and elastomers. thermoplastic elastomers (tpe/t-pr), soft pvc, silicone products, handle overmolding, data cable outer sheaths, etc. Shore a is used to control the hand feel and hardness.
- Hard plastics and rigid materials acrylic, hard pvc, epoxy boards, bakelite, glass fiber reinforced plastics and other relatively hard non-metallic materials. Shore d is used to detect hardness and wear resistance.

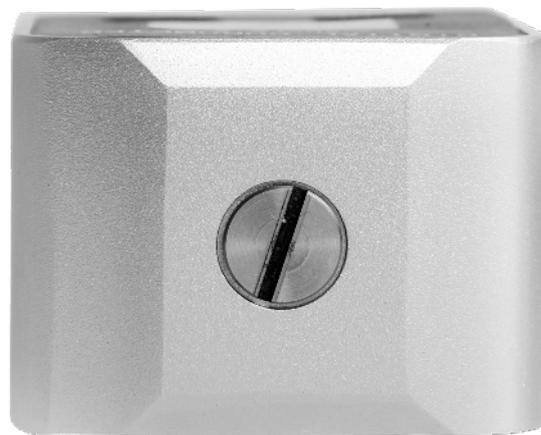


Product Details

Detail Display



- Equipped with USB communication function for real-time data upload.
- Comes with a USB connection cable as standard, which can be directly connected to the side interface.



- Can be connected to a test platform (optional) through the top adapter for high-precision and stable testing.

Product Details

Detail Display



- The working surface of the pressure foot is flat and smooth, fitting stably with the sample to ensure the indenter is pressed vertically
- The indenter is made of wear-resistant alloy material, which will not deform after long-term use, ensuring accurate hardness values and good repeatability.

- Hardness test platform is optional. Compared with hand-held measurement, the measurement results with the test platform are more stable and accurate, suitable for tests requiring high precision.



Instrument Appearance



1. Adapter Port
4. Function Buttons

2. Hold Time
5. Pressure Foot

3. Measurement Result
6. Indenter

Product Details

Button Functions



- **MODE:** Used to set the hold time, with a maximum of 30 seconds. It is an important function of this product and can meet the requirements for test hold time in many new implementation standards.
- **ZERO:** Used for zero reset to improve test accuracy.
- **AVE:** Used to set the number of averaging times, with a setting range of 0 to 9 times.
- **ON/OFF:** Used to turn the instrument on and off. It will automatically shut down after 5 minutes of inactivity.

Technical Specification

| | | | | | |
|--|--|--|--|------------------|---|
| Name | Shore Durometer | | | | |
| Model | iShore-75 | | | | |
| Test Method | Shore A | Shore D | Shore AO | Shore AM | Shore OO |
| Type | A | D | AO | AM | OO |
| Test Force (mN) (Positive & Negative) | 8050±75 | 44450±445 | 8050±75 | 764±8.8 | 1111±18 |
| Indenter Protrusion (mm) | 2.5 | 2.5 | 2.5 | 1.25 | 1.25 |
| Measuring Range | 0~100 | 0~100 | 0~100 | 0~100 | 0~100 |
| Minimum Sample Thickness (mm) | 6 | 6 | 6 | 1.5 | 6 |
| Application Range | Soft rubber, synthetic rubber, natural rubber products, casting resin, printing rubber rollers, thermo-plastic elastomers, soft PVC, leather and other materials | Thermo-plastics, hard resin, hard rubber, flooring materials, etc. | Foam plastics covered with leather, steering wheel materials, etc. | Ultra-thin parts | Foam rubber, silicone rubber, gel materials, etc. |

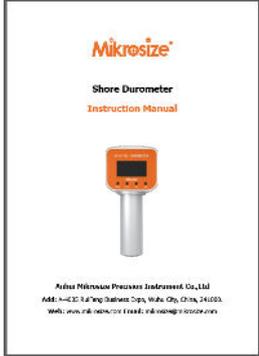
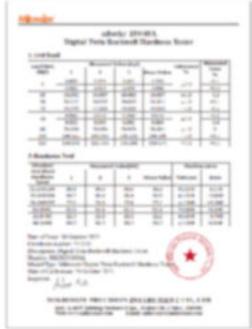
Technical Specification

| | |
|------------------------------------|------------------------|
| Measurement Error | ≤1 Shore |
| Resolution | 0.1 Shore |
| Working Ambient Temperature | -10°C~40°C |
| Working Humidity Range | <90%RH |
| Power Supply | Lithium battery |
| Screen Size | 1.54-inch OLED display |
| Hold Time | Adjustable 0~30s |
| Overall Dimension | 150mm×60mm×50mm |
| Host Weight | 300g |

Standard Delivery

| Name | Qty | Photo |
|---------------------------|------|---|
| Shore Durometer Host | 1 pc |  A handheld digital durometer with an orange top and silver body. The display shows '64.6 HA'. |
| USB Charger | 1 pc |  A white USB wall charger with two USB ports. |
| USB Cable | 1 pc |  A white USB cable with a USB-A connector on one end and a custom connector on the other. |
| Protective Equipment Case | 1 pc |  A black protective case containing the durometer, USB charger, and USB cable. |

Standard Delivery

| Name | Qty | Photo |
|---------------------------|--------|---|
| Instruction Manual | 1 copy |  |
| Calibration Certificate | 1 copy |  |
| Warranty Card | 1 copy |  |
| Certificate of Conformity | 1 copy |  |

Optional Delivery

| Name | Photo |
|-----------------|--|
| Operating Stand |  |
| Test Block |  |