

TMTECK

Shore Hardness Tester



Shore Durometer (TS150A,160C,180D)



Features

A-type durometer applies to general rubber, synthetic rubber, soft rubber, poly-resin, leather, wax, etc.

C-type durometer applies to rubber and contains the tiny hole material that the vesicant is made in being used for plastic

D-type durometer applies to general hard rubber, hard resin, acryl, glass, thermoplastics, printing plates, fibres, etc.

Main Specifications

- Dial value:1-100 degree
- Pointer journey:0-2.5mm
- Stress at the end of pointer:0.55N-8.06N of A-type and C-type;0-44.5N of D-type

Overview

- Shore durometer is used to test hardness of sulfureted rubber and plastics, such instrument has A-type/D-type/C-type.
- A-type and D-type apply to test the low and medium level hardness and high level hardness of materials.
- C-type applies to test the hardness of shoe-making porous materials made by vesicants within plastics when the compression rate is 50% and stress is beyond 0.049MPa.
- Complied with ASTM D2240, ISO/R686, DIN 53505, and JIS R7215
- Dimensions: 115 x 60 x 25 mm
- Weight: 200 g (net); 300 g (gross)

Shore Hardness Tester LX-A



Function

LX-A hardness tester is widely applied in the low and medium hardness plastic, all kinds of rubber, multi-dimensional fat, leather, wax hardness test etc. The product refers to ISO868 and the ISO7619 international standard production, conforms to GB/T531, JB6148 and the JJG304 standard.

Character

Needle indicates, easy to read, high accuracy.

Dual needle, after test the top value, the driven needle will stop move, convenience the user to read.

Handhold design, carry conveniently, handhold measure, also can be installed with match test stand.

Specification

Dial value: 0 ~ 100HA

Needle stroke: 2.5 mm

Measure range: 10 ~ 90HA

Needlepoint size: Φ 0.79 mm

Weight: ~ 0.5 kg

Shore Hardness Tester LX-C



Function

LX-C hardness tester is used in measuring the hardness of oak model micro porous material which includes vesicant

when the compression ratio is 50%, the stress above 0.5kg/cm². It also can be used in other similar hardness materials.

Character

Needle indicates, easy to read, high accuracy.

Dual needle, after test the top value, the driven needle will stop move, convenience the user to read.

Handhold design, carry conveniently, handhold measure, also can be installed with match test stand.

Specification

Dial value: 0 ~ 100HA

Needle stroke: 2.5 mm

Measure range: 10 ~ 90HC

Needlepoint size: SR 2.5 mm

Weight: ~ 0.5 kg

Shore Hardness Tester LX-D



Function

LX-D hardness tester is suitable for hardness test of high degree of hardness material, such as

common hard rubber, hardened resin, acrylic, Plexiglas, thermos plastic rubber, printing plate, fibred.

The product conforms to HG/T2489 and other related standard request.

Character

Needle indicates, easy to read, high accuracy.

Dual needle, after test the top value, the driven needle will stop move, convenience the user to read.

Handhold design, carry conveniently, handhold measure, also can be installed with match test stand.

Specification

Dial value: 0 ~ 100HD

Needle stroke: 2.5 mm

Measure range: 10 ~ 90HD

Needlepoint size: SR 0.1 mm

Weight: ~ 0.5 kg

Sponge Durometer LX-F



Function

LX-F type sponge durometer is suitable for the determination of soft foam, polyurethane foam rubber products' hardness.

And it will be different with the other hardness tester in the aspects of using. When using, the presser foot directly contact to the sample, and see its own weight as force measurement load.

Character

1: Scope of pressure needle route: 0 ~ 2.5 millimeters.

2: The scale value: 0-100 degrees.

3: The force of pressure needle end: 550mN~4300mN (56~438.5g).

Method of using

Handheld the middle of the instrument, located the hardness tester gently on the plane specimens which is bigger than presser foot (or specimen). Reading out the value in 1 seconds when durometers' presser foot contact with the sample smoothly. And the tick of pointers is the hardness value of sample (specimen). In order to improving the accuracy of measurement, you should put the sample on a flat plate glass or plate. Each measuring point should be measured only one time, the measuring point at a distance of more than 25mm of different parts from the same sample should be more than 5 points. To take the average of measurement results, namely it's the hardness value of the materials

Shore Durometer TS-00



TS-00 durometer is an essential characteristic of Rubber foam, sponge, plastic foam, silicone, gelatinous materials, textiles, low-density coils. products.

It is feature portability, ease of operation, with facility, high resolution and it is available in GB/T 531 -1999 and ISO 7619, ASTM D2240.

Specifications:

Test range: 0-100

Available test range: 10-90

Stroke: 2.5 mm

Margin of error: ± 0.5

Tip dimension: 0.79mm

Net weight: 0.2kg

Digital Shore Durometer Hardness Unit Meter Scale Gauge Rubber Support TS300 Series



NEW TYPE digital shore durometer, rubber hardness tester, shore hardness tester TS-300(TS-300A and TS-300D)

DIN ISO 7619, DIN EN ISO 868, ASTM D2240, NF EN ISO 868, JISK 6253
TMTeck offers Digital Hardness Tester TS-300 series which provides significant test data for the use in laboratory or field.

Companies that develop or use the products made of soft elastic materials produce, have usually a laboratory in which the products and raw material are regularly tested according to the standard.

Key Features

1. TS-300 series housing is made of aluminum alloy which provides robust structure and light weight
2. A large screen with 102 x 64 pixels with selectable information to display
3. Navigate all functions through a touch of your thumb. The TS-300 series is designed for one-handed operation.
4. Equipped with 2 temperature sensors with 1 for measuring the specimen temperature and the other for the environmental temperature as well as humidity.

5. A patented hand-grip helps minimizing incorrect measuring angle and ensuring the right force is applied.

A sleek appearance

The TS-300 series measures 143 L x 57 W x 41 D mm and weighs only as little as 341 grams.

The Slightly tilted top section eliminates any light reflection from the screen making it a comfortable reading angle. The structure importance is not compromised because of its sleek design, the entire TS-300 series housing is made of aluminum alloy which is meant to provide light weight and robustness.

TS-300 series Display

On the TS-300 series display, not only you get a view of the hardness value, additional information such as the environmental temperature/humidity specimen temperature, date/time, No. of measurements are all at a glance. Another breakthrough is that all previous measurements are viewable directly on the display and transferrable by USB

Navigate through your thumb

The TS-300 series is designed to provide great usability. Simply with a touch of your thumb, you can navigate through all functions on the screen while your hand has a firm grip on the lower section of the device. It is a truly one-handed operation durometer.

Innovative feature on TS-300 series

Both rubber and plastic are prone to change their properties due to the temperature change. To help you better understand how temperature could influence the hardness of your specimen, the TS-300 series is equipped with two thermal couples for delivering information of your specimen temperature and the environmental temperature

Minimizing user error

One of the most common mistakes to make when a measuring is taken place is the angle of approach. The TS-300 series has a large hand grip to assist the user to approach the specimen perpendicularly. The special mechanism inside the hand grip delivers an exact amount of load (Shore A = 1kg / Shore D = 5 kg) required as when the presser foot gets into a full contact with the specimen