LX-AM Shore Durometer User's Manual

Function:

LX-AM Shore Durometer is an instrument for testing the hardness of filmy rubber and plastic with normal range. It carries out National Standard GB/T531.1-2008 《Rubber valcanized or thermoplastic-Determination of indentation hardness-Part 1: Durometer method(Share hardness)》, Which equals to ISO 7619-1:2004 《International Standard Rubber-Determination of Indentation hardness by means of pocket hardness meters》. Install this hardness tester on the test stand in supporting the load, and can be used in the laboratory to determin the standard hardness of ruber, plastic specimens. It has the following charateristics: simple structue, easy usage, light in weight and easy reading.

Note: This durometer can only used on matched test stand, could not determin by hand. And designed for testing plastic specimens and products, the thin samples (thickness below 6mm).But testing and adjusting must comply with the regulation of GB/T2918-1998 《Plastic Sample Condition Adjustment and the Standard Environment of Testing》.

Specification: (Ham is the reading of AM Shore Durometer)

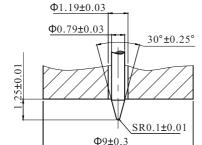
• Tip Stroke: 0~1.25mm

• Available Test Range: 20~90HAM

Tip Pressure: F=324+4.4Ham(mN)
Dimension: 115×60×25mm

• Dial Indicaton: 0~100Ham

Accuracy: ±2HAMWeight: 0.15kg





Operation Process

First install the Shore Durometer on the test stand correctly, then put the test sample on the glass table, press the operating handle. The sample will contact with the base under the effect of the fixed weights. Notice: the distance between the tip and the sample can not be less than 4.5mm. Press the base on the sample without any vibrancy and keep the base parallel with the sample's surface, marking the tip press sample vertically. The pressing force should be just enough. Except any provision, the reading can be done 3 second after the sample contact with the base. It must be pointed out if the reading is done in other interval time. Take 5 tests in different positions with at lest 0.8mm between the samples and tip. Take the average.

Operation Details:

1.Examination before testing

Before test, please check the needle is Zero. If the needle is not on Zero, please loose the screw on up-right, and turn around the dial make the needle on the Zero. Press the meter on glass board, the needle must on 20 ± 0.5 Ham(half scale). If it not, please press the tip slightly. If the needle still could not point to 20 ± 0.5 Ham(half scale), the durometer can not be used. If it used with test stand, pressing the operating handle, the table rose to die poise position, make the amount of pressure needle into the test hole, the needle must on 100 ± 1 Ham. If not, adjustment screw, still not, the durometer must be sent to factory to calibrate.

- $2. Rubber\ sample\ and\ the\ temperature (GB/T531.1-2008):$
- ①Thickness of rubber sample shoud be not less than 1.5mm, test location away from the edge of at least 4.5mm. If the thickness is less than 1.5mm, please overlay samples but not more than 3 layers, and the thickness at least 1.5mm (the result of this method is not the same as the single specimen's).
- ②The required temperature should be $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$ and the meter should be kept one hour under this temperature before operation.
- The surface of rubber and plastic sample should be smooth and even with no damage and dust.
- When determin the thin samples of soft rubber, due to the impact of testing table may obtain a higher hardness value.
- 3. The operating speed of the the handle is no more than 3.2mm / s.
- 4. Durometer should submit for censorship in a time. Generally speaking, the period is not more than 1 year.
- 5. Put the meter into the box and store it in the dry environment to avoid damp.
- 6. Clean the lift axis and working table base regularly by smearing anti-rust oil.

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