

# MLX-A、C、D

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## Digital Shore Rubber Durometer



### Product Overview

MITECH MLX-A、C、D Digital Shore Rubber Durometer is simple, compact and portable, the reading is intuitive, and it is easy to use. It can be measured by hand or placed on the supporting load frame. It is widely used in the hardness measurement of rubber and plastic.

## Technical Parameters

- Graduation: 0-100 degree
- Indentor running: 0-2.5mm
- Indentor press on telos: A,C type: 0.55N-8.06N; D type: 0-44.5N

## Working Principle

A steel press with a certain shape is pressed vertically into the sample surface under the action of the test force. When the surface of the pressure foot is completely attached to the surface of the sample, the tip surface of the pressure needle has a certain extension length L relative to the surface of the pressure foot. The value is used to characterize the Shore hardness. The L value is larger, the Shore hardness is lower, and vice versa.

The calculation formula is:  $HA = 100 - L / 0.025$ ;  $HD = 100 - L / 0.025$ ;  $HC = 100 - L / 0.025$ . In the formula, HA is Shore A hardness. According to the formula, Shore A hardness is related to the displacement of the pressure pin. By measuring the displacement of the pressure pin, the Shore A hardness value can be calculated.

## Features

- Large LCD display design, atmospheric appearance, clear reading and high accuracy;
- Hand-held design, easy to carry, it can be handheld measurement, also can be installed on the supporting test rack for testing;
- Data input is more convenient, open the data hatch and insert the data cable to transfer with the computer;
- Battery compartment design, it is more convenient to replace the battery.

## Applications

- A type is suitable for hardness testing of low and medium hardness materials, general rubber, synthetic rubber, soft rubber, polyester, leather, wax, etc .
- D type is suitable for hardness testing of high hardness materials, general hard rubber, hard resin, acrylic, glass, thermoplastic, printing plate, fiber, etc
- C type is suitable for the hardness test of microporous materials for shoes made of rubber and plastic combined with foaming agent when the compression rate is 50% and the stress is above 0.049Mpa.

## Serial products comparison

Model	Name	Display	Measuring range	Accuracy	Applicable materials
MLX-A-Y			10-90HA	$\leq \pm 1$	Rubber, soft rubber, etc.
MLX-C-Y	Digital Shore Durometer	Digital Display	10-90HC	$\leq \pm 1$	Microporous materials for shoes made of rubber and plastic
MLX-D-Y			10-90HD	$\leq \pm 1$	Hard rubber, hard resin, organic glass, etc.

## Configurations

NO.	Configuration		QTY	Remarks
1		Main unit	1	
2	Standard	Battery	1	
3	Configuration	Desiccant	1	
4		Attachment files	1	



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