

# MLX-A、C、D

Professional manufacturer, best quality with competitive price ●  
Recommended by the world UT NDT inspection association for training and examination ●  
Core technology with independent intellectual property rights, certificate of CE, GOST and etc.. ●

## Shore Rubber Durometer



### Product Overview

MITECH MLX-A、C、D 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

- Pointer indication, convenient, accurate and high reading;
- Hand-held design, easy to carry, can be handheld measurement, can also be installed on the supporting test rack for testing.

## 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	Pointer Shore Durometer	Pointer Display	10-90HA	$\leq \pm 1$	Rubber, soft rubber, etc.
MLX-C			10-90HC	$\leq \pm 1$	Microporous materials for shoes made of rubber and plastic
MLX-D			10-90HD	$\leq \pm 1$	Hard rubber, hard resin, organic glass, etc.

## Configurations

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



MITTECH