

A roller's hardness reflects how well its covering resists indentation — a key performance parameter. At Soremag, it is measured on the **Shore A** scale — the reference for rubber and polyurethane — using a **Rex Type A durometer**. The higher the Shore A value, the harder the covering.

WHY ACCURATE MEASUREMENT MATTERS

- **Consistent production:** controlled hardness ensures uniformity from one roller to the next.
- **Longer roller life:** hardness matched to the application limits covering wear.
- **Reliable operation:** an accurate reading prevents vibration, marking and deformation.

The durometer reads hardness **from 0 to 100**: low values = soft rubber or PU, high values = hard material. The **Shore A** scale covers the vast majority of rollers; for very hard materials (such as ebonite), the **Shore D** scale is used.



Rex® Type A durometer (Shore A)



Soremag — official Rex® distributor

TIPS FOR A RELIABLE MEASUREMENT

- ✓ **Regular calibration:** check the Rex durometer against a reference block to keep it accurate.
- ✓ **Variation between instruments:** readings can differ by 4 points or more from one durometer to another.
- ✓ **Technique matters:** how you apply the gauge changes the result — follow the method below.

THE SOREMAG METHOD IN 4 STEPS

1 Prepare the surface

The roller must be **clean, smooth and dry**. Any contamination or mark can distort the reading.

2 Position the durometer

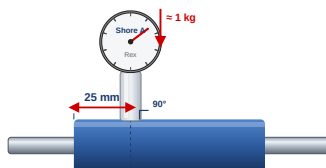
Apply it **perpendicular** to the surface, without tilt, **25 mm from each end** of the roller.

3 Apply pressure

Press smoothly, without jolts, at **≈ 1 kg**, and read the value as soon as full contact is made (**within 2 s**).

4 Check the temperature

Measure at room temperature (**≈ 23 °C**): heat or cold change the apparent hardness.



In short — Rex Type A durometer, perpendicular, 25 mm from the ends, at **≈ 1 kg**, read within 2 s, at **≈ 23 °C**. A rigorous measurement ensures consistent, high-performing rollers.

FREQUENTLY ASKED QUESTIONS

Which scale for a rubber roller?

The Shore A scale in the vast majority of cases; the Shore D scale is reserved for very hard materials (such as ebonite).

Where to measure on the roller?

25 mm from each end, applying the durometer perpendicular to the surface.

Why do two durometers give different readings?

A difference of 4 points or more between instruments is normal: hence the importance of regular calibration and a consistent method.