

DYNAMIC MECHANICAL ANALYSIS (DMA) TEST TRAINING

TRAINING MODULE



- **Format:** Online self-learning module
- **Duration:** 2 hours
- **Target group:** Researchers
- **Level:** EQF 5 - 7
- **Provider:** University of Twente
- **Language:** English
- **Certificate:** Digital badge
- **Costs:** Free

Rubber behaves differently depending on how fast and how hard it's deformed and capturing that behavior is key to predicting real-world performance. Dynamic Mechanical Analysis (DMA) is the standard method for measuring this viscoelastic response.

In this training module, you will learn how a DMA instrument applies oscillating stress or strain to a rubber specimen, and how this reveals storage modulus, loss modulus, and tan delta across a range of temperatures and frequencies. You will discover how to prepare and mount a specimen, run a temperature or frequency sweep, and interpret the resulting curves.

You will also learn how to identify the glass transition temperature and relate tan delta behavior to properties such as rolling resistance and wet grip, which are critical to tire performance.

**SCAN TO
START THE
FREE MODULE**



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