

ICS 83.060
CCS G40



**NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA**

GB/T 48123-2026

**Rubber, vulcanized or thermoplastic - Determination of
equibiaxial tensile stress-strain properties**

硫化橡胶或热塑性橡胶 等双轴拉伸应力应变性能的测定

(English Translation)

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Foreword

GB/T 48123-2026 is a recommended national standard (GB/T) of the People's Republic of China, issued on 28 August 2026 by the State Administration for Market Regulation and the Standardization Administration of China, with effect from 1 March 2027.

It is under the responsibility of the China Petroleum and Chemical Industry Federation.

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1 Scope

Rubber components in seals, membranes, tyres and hoses are often loaded in more than one direction, and equibiaxial tension is one way of characterising such behaviour. This document covers the determination of equibiaxial tensile stress-strain properties of vulcanized or thermoplastic rubber, giving laboratories a defined test method.

Users include rubber compounders, material suppliers, product designers who need stress-strain data for analysis, and testing laboratories in the rubber, automotive and polymer industries. Researchers who build material models for simulation may also draw on data produced by this type of method. It is a recommended national standard, so it is voluntary unless required by contract or rule. It was issued on 28 August 2026 and takes effect on 1 March 2027. It is an original Chinese document and does not adopt an international standard. Uniaxial tests alone do not describe how rubber behaves under multi-directional strain, so equibiaxial data are a useful complement.