

# ISO 6721-2:2019 (E)

## Plastics — Determination of dynamic mechanical properties — Part 2: Torsion-pendulum method

---

### Contents

	Foreword
1	Scope
2	Normative references
3	Terms and definitions
4	Principle
5	Test apparatus
5.1	Pendulum
5.2	Inertial element
5.2.1	General
5.2.2	Method A (see Figure 1)
5.2.3	Method B (see Figure 2)
5.3	Clamps
5.4	Oscillation-inducing device
5.5	Oscillation-frequency and oscillation-amplitude recording equipment
5.6	Temperature-controlled chamber
5.7	Gas supply
5.8	Temperature-measurement device
5.9	Devices for measuring test-specimen dimensions
6	Test specimens
6.1	General
6.2	Shape and dimensions
6.3	Preparation
7	Number of specimens
8	Conditioning
9	Procedure
9.1	Test atmosphere
9.2	Measurement of specimen cross-section
9.3	Mounting the test specimens
9.4	Varying the temperature
9.5	Performing the test
10	Expression of results
10.1	Symbols and correction factors
10.2	Calculation of logarithmic decrement, $\Lambda$
10.3	Calculation of torsional storage modulus, $G'$ to "
10.4	Calculation of torsional loss modulus, $G''$ to "
11	Precision
12	Test report
Annex A	(normative) Influence of longitudinal force, $W$
Annex B	(informative) Damping correction factor, $F_d$
Annex C	(informative) Dimensional correction factor, $F_c$