ISO 6721-1:2019 (E)

Plastics — Determination of dynamic mechanical properties — Part 1: General principles

Contents

Foreword

Introduction

1 Scope

2 Normative references

3 Terms and definitions

4 Principle

5 Test apparatus

5.1 Type
5.2 Mechanical, electronic and recording systems
5.3 Temperature-controlled enclosure
5.4 Gas supply
5.5 Temperature-measurement device
5.6 Devices for measuring test specimen dimensions

6 Test specimens

6.1 General
6.2 Shape and dimensions
6.3 Preparation

7 Number of test 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 Varying the frequency
9.6 Varying the dynamic-strain amplitude

10 Expression of results

11 Precision

12 Test report

Annex A (informative) Resonance curves

Annex B (informative) Deviations from linear behaviour

Page count: 23