ISO 6721-9:2019 (E)

Plastics — Determination of dynamic mechanical properties — Part 9: Tensile vibration — Sonic-pulse propagation method

Contents

Foreword

1 Scope

2 Normative references

3 Terms and definitions

4 Principle

5 Test device

- 5.1 Apparatus
- 5.2 Transducers
- 5.3 Transducer drive unit
- 5.4 Pulse arrival time measuring equipment
- 5.5 Temperature measurement and control equipment

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 Mounting the specimen
- 9.3 Performing the test
- 9.4 Varying the temperature

10 Calculation and expression of results

- 10.1 Symbols
- 10.2 Calculation of the longitudinal wave velocity
- 10.3 Calculation of the tensile storage modulus, E'
- 10.4 Significant figures

11 Precision

12 Test report

Annex A (informative) Precision

Page count: 8