DIN EN ISO 178:2013-09 (E)

Plastics - Determination of flexural properties (ISO 178:2010 + Amd.1:2013) (includes Amendment :2013)

Contents

Page

1 Scope 5

2 Normative references 6

3 Terms and definitions 6

4 Principle 9

5 Test machine 9
5.1 General 9
5.2 Test speed 9
5.3 Supports and loading edge 10
5.4 Force- and deflection-measuring systems 10
5.5 Equipment for measuring the width and thickness of the test specimens 11

6 Test specimens 12
6.1 Shape and dimensions 12
6.2 Anisotropic materials 13
6.3 Preparation of test specimens 13
6.4 Specimen inspection 14
6.5 Number of test specimens 14

7 Atmosphere for conditioning and testing 14

8 Procedure 14

9 Calculation and expression of results 17
9.1 Flexural stress 17
9.2 Flexural strain 17
9.3 Flexural modulus 18
9.4 Statistical parameters 18
9.5 Significant figures 18

10 Precision 19

11 Test report 19

Annex A (informative) Precision statement 20

Annex B (informative) Influence of changes in test speed on the measured values of flexural properties 22

Bibliography 23