

DIN 53435:2024-10 (E)

Testing of plastics - Bending test and impact test on dynstat test specimens

Contents	Page
Foreword	4
1 Scope	6
2 Normative references	6
3 Terms and definitions.....	7
4 Principle.....	8
4.1 Bending test	8
4.2 Impact bending test.....	8
5 Apparatus	8
5.1 General	8
5.2 Dynstat bending test, DB.....	8
5.2.1 Loading principle	8
5.2.2 Generating and measuring loads	10
5.2.3 Apparatus design.....	12
5.3 Dynstat impact bending test, DS.....	13
5.3.1 Loading principle	13
5.3.2 Generating and measuring loads	14
5.4 Devices for measuring geometrical dimensions	15
6 Dynstat test specimens.....	16
6.1 Sampling and preparation.....	16
6.1.1 General	16
6.1.2 Test specimens with original surfaces	16
6.1.3 Test specimens with machined surfaces	16
6.2 Shapes and dimensions	17
6.2.1 Unnotched test specimens.....	17
6.2.2 Notched test specimens.....	17
6.3 Number of specimens	18
7 Conditioning of test specimens.....	18
8 Procedure	19
8.1 Test atmosphere.....	19
8.2 Determining geometric dimensions	19
8.3 Bending test	19
8.4 Impact bending test.....	20
9 Evaluation.....	20
9.1 Bending test	20
9.2 Impact bending test.....	21
10 Test report.....	21
10.1 General	21
10.2 Bending test	22
10.3 Impact bending test.....	23
11 Precision	23

Annex A (informative) Determining strain in test specimens	24
Annex B (informative) Testing at different temperatures	26
Annex C (informative) Precision data	27
Annex D (informative) Comparison of notch types	29
Annex E (informative) Influence of notch depth	30
Bibliography	32