DIN EN ISO 8256:2024-03 (E)

Plastics - Determination of tensile-impact strength (ISO 8256: 2023)

Contents

Page

European foreword ... **3**

Foreword ... **4**

1 Scope ... **5**

2 Normative references ... **5**

3 Terms and definitions ... **6**

4 Principle ... **6**

5 Apparatus ... **6**
5.1 Test machine ... 6
5.2 Pendulum and striker ... 6
5.3 Crosshead ... 7
5.4 Clamping devices/jaws ... 7
5.5 Micrometers and gauges ... 7

6 Test specimens ... **7**
6.1 Shape and dimensions ... 7
6.2 Preparation ... 9
6.2.1 Moulding and extrusion compounds ... 9
6.2.2 Sheets ... 10
6.2.3 Fibre-reinforced resins ... 10
6.3 Notching of specimens ... 10
6.4 Number of test specimens ... 10
6.5 Anisotropy ... 10
6.6 Conditioning ... 11

7 Procedure ... **11**

8 Determination of energy corrections ... **12**
8.1 Method A — Correction E_q due to the plastic deformation and the kinetic energy of the crosshead ... 12
8.2 Method B — Crosshead-bounce energy E_b ... 12

9 Calculation and expression of results ... **12**
9.1 Calculation of corrected tensile-impact energy ... 12
9.1.1 General ... 12
9.1.2 Energy correction for method A ... 12
9.1.3 Energy correction for method B ... 13
9.2 Calculation of tensile-impact strength ... 13
9.3 Statistical parameters ... 13
9.4 Number of significant figures ... 13

10 Precision ... **13**

11 Test report ... **14**

Annex A (normative) **Determination of correction factor for method A** ... **15**

Annex B (normative) **Determination of bounce-correction factor for method B** ... **18**

Bibliography ... **20**