ISO 8256:2023-11 (E)

Plastics - Determination of tensile-impact strength

Contents

Page

Foreword ... **iv**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **2**

4 Principle ... **2**

5 Apparatus ... **2**
5.1 Test machine ... 2
5.2 Pendulum and striker ... 2
5.3 Crosshead ... 3
5.4 Clamping devices/jaws ... 3
5.5 Micrometers and gauges ... 3

6 Test specimens ... **3**
6.1 Shape and dimensions ... 3
6.2 Preparation ... 5
6.2.1 Moulding and extrusion compounds ... 5
6.2.2 Sheets ... 6
6.2.3 Fibre-reinforced resins ... 6
6.3 Notching of specimens ... 6
6.4 Number of test specimens ... 6
6.5 Anisotropy ... 6
6.6 Conditioning ... 7

7 Procedure ... **7**

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

9 Calculation and expression of results ... **8**
9.1 Calculation of corrected tensile-impact energy ... 8
9.1.1 General ... 8
9.1.2 Energy correction for method A ... 8
9.1.3 Energy correction for method B ... 9
9.2 Calculation of tensile-impact strength ... 9
9.3 Statistical parameters ... 9
9.4 Number of significant figures ... 9

10 Precision ... **9**

11 Test report ... **10**

Annex A (normative) **Determination of correction factor for method A** ... **11**

Annex B (normative) **Determination of bounce-correction factor for method B** ... **14**

Bibliography ... **16**