DIN EN ISO 179-1:2026-07 (E)

Plastics - Determination of Charpy impact properties - Part 1: Non-instrumented impact test (ISO 179-1:2026)

Contents

Page

Foreword ... **iv**

Introduction ... **v**

1 Scope ... **1**

2 Normative references ... **1**

3 Terms and definitions ... **1**

4 Principle ... **2**

5 Apparatus ... **3**
5.1 Test machine ... 3
5.2 Micrometers and gauges ... 3

6 Test specimens ... **4**
6.1 Preparation ... 4
6.1.1 Moulding and extrusion compounds ... 4
6.1.2 Sheets ... 4
6.1.3 Long-fibre-reinforced materials ... 4
6.1.4 Checking ... 6
6.1.5 Notching ... 7
6.2 Anisotropy ... 7
6.3 Shape and dimensions ... 7
6.3.1 Materials not exhibiting interlaminar shear fracture ... 7
6.3.2 Materials exhibiting interlaminar shear fracture (e.g. long-fibre-reinforced materials) ... 9
6.4 Number of test specimens ... 9
6.5 Span between specimen supports, *L* ... 10
6.6 Conditioning ... 10

7 Procedure ... **10**

8 Calculation and expression of results ... **11**
8.1 Unnotched specimens ... 11
8.2 Notched specimens ... 11
8.3 Statistical parameters ... 12
8.4 Significant figures ... 12

9 Precision ... **12**

10 Test report ... **12**

Annex A (informative) **Additional methods for investigating the influence of surface effects** ... **14**

Annex B (informative) **Precision data** ... **16**

Annex C (informative) **Determining the notch tip radius using a CCD microscope** ... **18**

Bibliography ... **21**