

ISO 179-1:2026-03 (E)

Plastics - Determination of Charpy impact properties - Part 1: Non-instrumented impact test

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, <i>L</i>	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