

ISO 179-1:2010-06 (E)

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

Contents		Page
Foreword		iv
1	Scope	1
2	Normative references	2
3	Terms and definitions	2
4	Principle	3
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	7
6.1.5	Notching	7
6.2	Anisotropy	7
6.3	Shape and dimensions	8
6.3.1	Materials not exhibiting interlaminar shear fracture	8
6.3.2	Materials exhibiting interlaminar shear fracture (e.g. long-fibre-reinforced materials)	9
6.4	Number of test specimens	9
6.5	Definition of span between specimen supports, L	10
6.6	Conditioning	11
7	Procedure	11
8	Calculation and expression of results	12
8.1	Unnotched specimens	12
8.2	Notched specimens	12
8.3	Statistical parameters	13
8.4	Significant figures	13
9	Precision	13
10	Test report	13
Annex A (informative) Additional methods for investigating the influence of surface effects		15
Annex B (informative) Precision data		17
Annex C (informative) Determining the notch tip radius using a CCD microscope		19
Bibliography		22