

DIN EN ISO 6603-2:2023-11 (E)

Plastics - Determination of puncture impact behaviour of rigid plastics - Part 2: Instrumented impact testing (ISO 6603-2:2023)

Contents		Page
European foreword		3
Foreword		4
1	Scope	5
2	Normative references	5
3	Terms and definitions	6
4	Principle	11
5	Apparatus	11
6	Test specimens	15
6.1	Shape and dimensions	15
6.2	Preparation of test specimens	15
6.3	Non-homogeneous test specimens	16
6.4	Checking the test specimens	16
6.5	Number of test specimens	16
6.6	Conditioning of test specimens	16
6.7	Pre-cooling	16
7	Procedure	17
7.1	Test atmosphere	17
7.1.1	General	17
7.1.2	Ambient temperature testing	17
7.1.3	Low temperature testing	17
7.2	Measurement of thickness	17
7.3	Clamping the test specimen	17
7.4	Lubrication	17
7.5	Puncture test procedure	18
8	Calculations	18
8.1	Expression of results	18
8.2	Calculation of deflection	18
8.3	Calculation of energy	19
8.4	Statistical parameters	19
8.5	Significant figures	20
9	Precision	20
10	Test report	20
Annex A (informative) Interpretation of complex force-deflection curves		22
Annex B (informative) Friction between striker and specimen		25
Annex C (informative) Clamping of specimens		28
Annex D (informative) Tough/brittle transitions		29
Annex E (informative) Influence of specimen thickness		30
Annex F (informative) Guidance for the classification of the type of failure		32
Annex G (informative) Precision data		37
Bibliography		39