



BSI Standards Publication

Thermoplastics pipes for the transport of fluids — Determination of Charpy impact properties

Part 1: General test method

National foreword

This British Standard is the UK implementation of ISO 9854-1:2023.

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A list of organizations represented on this committee can be obtained on request to its committee manager.

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Thermoplastics pipes for the transport of fluids — Determination of Charpy impact properties —

Part 1: General test method

*Tubes thermoplastiques pour le transport des fluides —
Détermination des caractéristiques au choc Charpy —*

Partie 1: Méthode générale d'essai



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Foreword

ISO (the International Organization for Standardization) is a worldwide federation of national standards bodies (ISO member bodies). The work of preparing International Standards is normally carried out through ISO technical committees. Each member body interested in a subject for which a technical committee has been established has the right to be represented on that committee. International organizations, governmental and non-governmental, in liaison with ISO, also take part in the work. ISO collaborates closely with the International Electrotechnical Commission (IEC) on all matters of electrotechnical standardization.

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This document was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluid*, Subcommittee SC 5, *General properties of pipes, fittings and valves of plastic materials and their accessories — Test methods and basic specifications*.

This second edition cancels and replaces the first edition (ISO 9854-1:1994), which has been technically revised.

The main changes are as follows:

- the title has been revised;
- in the Scope, Method A has been modified and Method B has been added;
- in [Clause 2](#), ISO 3126 and ISO 13802 have been added;
- in [Clause 3](#), terms and definitions have been added;
- in [Clause 4](#), the principle has been reworded;
- [subclause 5.1](#) has been revised to suit notched specimens;
- [subclause 5.2](#) has been added, specifying the micrometres and gauges for measuring the dimensions of specimens;
- [subclause 5.4](#) has been added, specifying the use of temperature measuring equipment;
- [Figure 3](#) has been modified, extending the support area to stabilize bigger specimens;
- notched specimens have been added in [Table 1](#);
- [subclause 6.2.1](#) has been revised, giving a method of unnotched specimens preparation;
- [subclause 6.2.2](#) has been added to cover the case of notched specimens;

- [Figure 4](#), [Figure 5](#), [Figure 6](#), [Figure 7](#) and [Figure 8](#) have been added;
- [Clause 7](#) has been revised, specifying the period of time prior to testing after the production of the pipe and the requirements of liquid bath and air bath;
- [subclause 8.1](#) has been added, giving the procedure for the test for notched and unnotched specimens;
- [subclause 9.2](#) has been added, giving the expression of results of notched specimens;
- in [Clause 10](#), point j) has been revised, giving the type(s) of failure observed and the number and the percentage of each type of failure;
- in [Clause 10](#), point k) has been added, covering the case of notched specimens.

A list of all parts in the ISO 9854 series can be found on the ISO website.

Any feedback or questions on this document should be directed to the user's national standards body. A complete listing of these bodies can be found at www.iso.org/members.html.