

SLOVENSKI STANDARD SIST EN ISO 3127:2018

01-januar-2018

Nadomešča: SIST EN 744:1997

Plastomerne cevi - Določanje odpornosti proti zunanjim udarcem - Metoda s postopkom rotiranja (round-the-clock method) (ISO 3127:1994)

Thermoplastics pipes - Determination of resistance to external blows - Round-the-clock method (ISO 3127:1994)

Rohre aus Thermoplasten Bestimmung der Widerstandsfähigkeit gegen äußere Schlagbeanspruchung - Umfangsverfahren (ISO 3127:1994)

Tubes en matières thermoplastiques Détermination de la résistance aux chocs extérieurs - Méthodé autour du cadran (ISO 3127:17994) d7-b953-4f4c-8bba-c775ba47c486/sist-en-iso-3127-2018

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23.040.20 Cevi iz polimernih materialov Plastics pipes

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Thermoplastics pipes - Determination of resistance to external blows - Round-the-clock method (ISO 3127:1994)

Tubes en matières thermoplastiques - Détermination de la résistance aux chocs extérieurs - Méthode autour du cadran (ISO 3127:1994)

Rohre aus Thermoplasten - Bestimmung der Widerstandsfähigkeit gegen äußere Schlagbeanspruchung - Umfangsverfahren (ISO 3127:1994)

This European Standard was approved by CEN on 19 September 2017.

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EN ISO 3127:2017 (E)

Contents	Page
European foreword	3

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SIST EN ISO 3127:2018

European foreword

The text of ISO 3127:1994 has been prepared by Technical Committee ISO/TC 138 "Plastics pipes, fittings and valves for the transport of fluids" of the International Organization for Standardization (ISO) and has been taken over as EN ISO 3127:2017 by Technical Committee CEN/TC 155 "Plastics piping systems and ducting systems" the secretariat of which is held by NEN.

This European Standard shall be given the status of a national standard, either by publication of an identical text or by endorsement, at the latest by April 2018, and conflicting national standards shall be withdrawn at the latest by October 2020.

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The text of ISO 3127:1994 has been approved by CEN as EN ISO 3127:2017 without any modification.

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INTERNATIONAL STANDARD

ISO 3127

Second edition 1994-12-01

Thermoplastics pipes — Determination of resistance to external blows — Round-the-clock method

Tubes en matières thermoplastiques — Détermination de la résistance aux chocs extérieurs — Méthode autour du cadran



ISO 3127:1994(E)

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.

Draft International Standards adopted by the technical committees are circulated to the member bodies for voting. Publication as an International Standard requires approval by at least 75 % of the member bodies casting a vote.

ITeh STANDARD PREVIEW

International Standard ISO 3127 was prepared by Technical Committee ISO/TC 138, *Plastics pipes, fittings and valves for the transport of fluids,* Subcommittee SC 5, *General properties*.

SIST EN ISO 3127:2018

This second edition cancels and replaces the first edition (ISO 3127?1980), b953-4f4e-8bba-which has been technically revised. c775ba47c486/sist-en-iso-3127-2018

Annexes A and B of this International Standard are for information only.

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Thermoplastics pipes — Determination of resistance to external blows — Round-the-clock method

1 Scope

This International Standard specifies a method for the determination of the resistance to external blows of thermoplastics pipes of circular cross-section; it is called the round-the-clock method.

This method is applicable to isolated batches of pipe tested at 0 °C (information is also given for sampling from the continuous production of pipe).

NOTE 1 If testing below 0 °C is required, a temperature of 20 °C is recommended.

circumference of the test piece. The true impact rate (TIR) of the batch, or production run from an extruder, is estimated

The severity of this test method can be adjusted by changing the mass of the striker and/or by changing the drop height. It is not technically correct to vary the severity of the test by choosing values of the TIR other than those specified below.

The maximum value acceptable for the TIR is taken to be 10 %.

PREVIEW
NOTE 3 It should be appreciated that a completely

batch, but in practice a balance is necessary between the statistical possibility of a definitive result and the cost of

2 Definitions

For the purposes of this International Standard the 3127 further testing. following definitions apply typs://standards.iteh.ai/catalog/standards/sist/727960d7-b953-4f4e-8bba-c775ba47c486/sist-en-iso-3127-2018

2.1 true impact rate (TIR): The total number of failures divided by the total number of blows, as a percentage, as if the whole batch had been tested.

NOTE 2 In practice, test pieces are drawn at random from the batch and the result is only an estimate of the TIR for that batch.

2.2 failure: Unless otherwise specified in the product standard, shattering or any crack or split on the inside of the pipe that was caused by the impact and that can be seen by the naked eye (lighting devices may be used to assist in examining the specimens).

Indentation of the test piece is not considered a failure.

3 Principle

Test pieces are subjected to blows from a falling striker, of specified mass and shape, dropped from a known height onto specified positions around the

4 Apparatus

(standards. idefinitive result can be reached only by testing the whole

- **4.1 Falling-weight testing machine**, incorporating the following basic components (see figure 1).
- **4.1.1 Main frame,** with guide rails or a guiding tube rigidly fixed in the vertical position, to accommodate a striker (4.1.2) and release it to fall vertically and freely. When calibrated, the speed of the striker at the moment of impact shall be not less than 95 % of the theoretical speed.
- **4.1.2 Striker**, having a nose comprising all or part of a hemisphere, combined with a cylindrical stem at least 10 mm long, and having dimensions conforming to figure 2 and table 1, depending upon the mass of the striker. The mass of the striker, including any associated weights, shall be selected from the values given in table 2. Below the stem, the nose shall be of steel with a minimum wall thickness of 5 mm and the striking surface shall be free from visible imperfections such as scratches or dents which may influence the results.