
Ductile iron pipelines — Polyethylene sleeving for site application

*Canalisations en fonte ductile — Manche en polyéthylène pour
application sur site*



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Foreword

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The main task of technical committees is to prepare International Standards. 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.

Attention is drawn to the possibility that some of the elements of this document may be the subject of patent rights. ISO shall not be held responsible for identifying any or all such patent rights.

ISO 8180 was prepared by Technical Committee ISO/TC 5, *Ferrous metal pipes and metallic fittings*, Subcommittee SC 2, *Cast iron pipes, fittings and their joints*.

This second edition cancels and replaces the first edition (ISO 8180:1985), which has been technically revised.

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Ductile iron pipelines — Polyethylene sleeving for site application

1 Scope

This International Standard specifies the characteristics of polyethylene film, commonly called sleeving, used as additional protection against corrosion for ductile iron pipelines, particularly when laid in aggressive soil conditions.

This film, the efficiency of which has been proved by experience, takes the form of a sheet or tube fitted around the pipes and fittings, on-site, immediately before pipe-laying.

2 Normative references

The following referenced documents are indispensable for the application of this document. For dated references, only the edition cited applies. For undated references, the latest edition of the referenced document (including any amendments) applies.

ISO 1183-1, *Plastics — Methods for determining the density of non-cellular plastics — Part 1: Immersion method, liquid pyknometer method and titration method*

ISO 527-3, *Plastics — Determination of tensile properties — Part 3: Test conditions for films and sheets*

ISO 7765-1, *Plastics film and sheeting — Determination of impact resistance by the free-falling dart method — Part 1: Staircase methods*

ISO 6383-2, *Plastics — Film and sheeting — Determination of tear resistance — Part 2: Elmendorf method*

3 Terms and definitions

For the purposes of this document, the following terms and definitions apply.

3.1

polyethylene sleeving

sleeving of piping with polyethylene film in tube or sheet form

3.2

polyethylene film

film extruded from virgin polyethylene raw material

4 Raw material

4.1 Characteristics

The material used for making the film shall be polyethylene or a mixture of polyethylene and/or ethylene and olefin copolymers.

When tested in accordance with ISO 1183-1, its density shall be between 910 kg/m³ and 935 kg/m³.