DEUTSCHE NORM September 2008

DIN 8078

ICS 23.040.20

Supersedes
DIN 8078:2007-05

Polypropylene (PP) pipes – PP-H, PP-B, PP-R, PP-RCT – General quality requirements and testing

Rohre aus Polypropylen (PP) –
PP-H, PP-B, PP-R, PP-RCT –
Allgemeine Güteanforderungen, Prüfung

Document comprises 17 pages

Translation by DIN-Sprachendienst.
In case of doubt, the German-language original should be consulted as the authoritative text.

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Foreword

This standard has been prepared by Technical Committee NA 054-05-02 AA *Prüfverfahren für Rohre* of the *Normenausschuss Kunststoffe* (Plastics Standards Committee).

DIN, the German Institute for Standardization, would like to bring attention to the fact that complying with this standard can involve exploitation of Patent EP1448631 in regard to material PP-RCT.

DIN takes no postition on the legitimacy, validity or scope of this patent.

The holder of this patent has declared to DIN he is prepared to negotiate with applicants from any part of the world licences under reasonable and non-discriminatory business conditions as laid down in his declaration. The declaration of the holder of patent EP 1448631 is registered with DIN. Information can be obtained from the patent holder at this address:

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

Amendments

This standard differs from DIN 8078:1996-04 as follows:

a) Type PP-RCT polypropylene has been included.

b) The material designation has been modified.

c) An equation for the reference curves has been included.

This standard differs from DIN 8078:2007-05 as follows:

a) A reference to patent rights has been added to the Foreword.

b) The description of PP-RCT polypropylene has been modified.

c) A reference to existing European product standards has been added to the Scope.

Previous editions

DIN 8078-2:1980-05
DIN 8078: 1972-02, 1984-04, 1996-04, 2007-05

1 Scope

This standard is applicable to circular-cross-section seamless polypropylene (PP) pipes made from homopolymer polypropylene (PP-H), block copolymer polypropylene (PP-B), random copolymer polypropylene (PP-R) or random copolymer polypropylene with modified crystalline structure and elevated temperature resistance (PP-RCT).

Individual requirements specified in this standard may be omitted or supplemented in technical delivery conditions relating to particular applications.

Attention is brought to the fact that existing European product standards apply for some specific applications, which are to be complied with where necessary. Some of these product standards are listed in the bibliography for the information of users of this standard. Please note that because European Standards are continually being developed, this list is not exhaustive.

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.

DIN 323-1, *Preferred numbers and series of preferred numbers — Basic values, calculated values, rounded values*

DIN 8077, *Polypropylene (PP) pipes — PP-H, PP-B, PP-R, PP-RCT — Dimensions*

DIN 16887, *Determination of the long-term hydrostatic pressure resistance of thermoplastics pipes*

DIN EN 10204, *Metallic products — Types of inspection documents*

DIN EN ISO 179-1, *Plastics — Determination of Charpy impact properties — Part 1: Non-instrumented impact test*

DIN EN ISO 1167-1, *Thermoplastics pipes, fittings and assemblies for the conveyance of fluids — Determination of the resistance to internal pressure — Part 1: General method*

DIN EN ISO 1167-2, *Thermoplastics pipes, fittings and assemblies for the conveyance of fluids — Determination of the resistance to internal pressure — Part 2: Preparation of pipe test pieces*

DIN EN ISO 2505, *Thermoplastics pipes — Longitudinal reversion — Test methods and parameters*

DIN EN ISO 9080, *Plastics piping and ducting systems — Determination of the long-term hydrostatic strength of thermoplastics materials in pipe form by extrapolation*

3 Material

3.1 General

Pipes shall be made from polypropylene (PP) moulding material stabilized with suitable antioxidants.

The choice of stabilizers and other additives shall be left to the manufacturer.

Moulding materials of unknown composition shall not be used (see Appendix A: Explanatory notes).