



National Standards Authority of Ireland

IRISH STANDARD

I.S. EN 13575:2004

ICS 23.020.10

**THERMOPLASTIC TANKS MADE FROM BLOW
OR ROTATIONAL MOULDED POLYETHYLENE
- TANKS FOR THE ABOVE GROUND
STORAGE OF CHEMICALS - REQUIREMENTS
AND TEST METHODS**

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EUROPEAN STANDARD

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NORME EUROPÉENNE

EUROPÄISCHE NORM

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English version

**Thermoplastic tanks made from blow or rotational moulded
polyethylene - Tanks for the above ground storage of chemicals
- Requirements and test methods**

Réservoirs thermoplastiques en polyéthylène moulés par soufflage ou par rotation - Réservoirs destinés au stockage non enterré de produits chimiques - Exigences et méthodes d'essai

Tanks aus Thermoplasten, die aus blas- oder rotationsgeformtem Polyethylen hergestellt wurden - Tanks für die oberirdische Lagerung von Chemikalien - Anforderungen und Prüfverfahren

This European Standard was approved by CEN on 16 August 2004.

CEN members are bound to comply with the CEN/CENELEC Internal Regulations which stipulate the conditions for giving this European Standard the status of a national standard without any alteration. Up-to-date lists and bibliographical references concerning such national standards may be obtained on application to the Central Secretariat or to any CEN member.

This European Standard exists in three official versions (English, French, German). A version in any other language made by translation under the responsibility of a CEN member into its own language and notified to the Central Secretariat has the same status as the official versions.

CEN members are the national standards bodies of Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.



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Foreword

This document (EN 13575:2004) has been prepared by Technical Committee CEN/TC 266 “Thermoplastic static tanks”, the secretariat of which is held by DIN.

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of an identical text or by endorsement, at the latest by April 2005, and conflicting national standards shall be withdrawn at the latest by April 2005.

According to the CEN/CENELEC Internal Regulations, the national standards organizations of the following countries are bound to implement this European Standard: Austria, Belgium, Cyprus, Czech Republic, Denmark, Estonia, Finland, France, Germany, Greece, Hungary, Iceland, Ireland, Italy, Latvia, Lithuania, Luxembourg, Malta, Netherlands, Norway, Poland, Portugal, Slovakia, Slovenia, Spain, Sweden, Switzerland and United Kingdom.

EN 13575:2004 (E)

1 Scope

This document specifies requirements for above ground single static thermoplastic tanks of volume 450 l to 10 000 l, which can be used for the storage of liquids other than water including chemicals classified as dangerous goods.

This document only applies to tanks manufactured by blow moulding or rotational moulding of polyethylene, with or without reinforcements, which are not subjected to pressures exceeding ± 5 kPa ($\pm 0,05$ bar). Except for periodic temperature fluctuation their normal operating temperature does not exceed 25 °C.

This document only applies to tanks with a maximum lifetime of 10 years.

This document specifies permitted materials, performance requirements and test methods and factory production control tests.

This document does not consider wind and snow loads.

NOTE National and/or International regulations above and beyond the requirements of this standard may apply to the storage of liquids and the installation of tanks.

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.

EN 1778, *Characteristic values for welded thermoplastic constructions — Determination of allowable stresses and moduli for design of thermoplastic equipment*

EN 13616; *Overfill protection devices for static tanks for liquid petroleum fuels*

EN ISO 179-1, *Plastics - Determination of Charpy impact properties – Part 1: Non-instrumented impact test (ISO 179-1:2000)*

EN ISO 527-3, *Plastics — Determination of tensile properties — Part 3: Test conditions for films and sheets (ISO 527-3:1995)*

EN ISO 1133, *Plastics — Determination of the melt mass-flow rate (MFR) and the melt volume-flow rate (MVR) of thermoplastics (ISO 1133:1997)*

EN ISO 1183, *Plastics — Methods for determining the density of non-cellular plastics*

EN ISO 1872-2, *Plastics — Polyethylene (PE) moulding and extrusion materials — Part 2: Preparation of test specimens and determination of properties - Amendment A1 (ISO 1872-2:1997/AM 1:2000)*

EN ISO 4892-1, *Plastics — Methods of exposure to laboratory light sources — Part 1: General guidance (ISO 4892-1:1999)*

EN ISO 4892-2, *Plastics — Methods of exposure to laboratory light sources — Part 2: Xenon-arc sources (ISO 4892-2:1994)*

EN ISO 16101:2004, *Packaging — Transport packaging for dangerous goods — Plastics compatibility testing (ISO 16101:2003)*

CLC/TR 50404, *Electrostatics – Code of practice for the avoidance of hazards due to static electricity*

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