

Irish Standard I.S. EN 422:2009

Plastics and rubber machines - Blow moulding machines - Safety requirements

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Plastics and rubber machines - Blow moulding machines - Safety requirements

Machines pour les matières plastiques et le caoutchouc -Machines de moulage par soufflage - Prescriptions de sécurité Kunststoff- und Gummimaschinen - Blasformmaschinen - Sicherheitsanforderungen

This European Standard was approved by CEN on 13 May 2009.

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Foreword

This document (EN 422:2009) has been prepared by Technical Committee CEN/TC 145 "Plastics and rubber machines", the secretariat of which is held by UNI.

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of an identical text or by endorsement, at the latest by December 2009, and conflicting national standards shall be withdrawn at the latest by December 2009.

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

This document supersedes EN 422:1995.

This document has been prepared under a mandate given to CEN by the European Commission and the European Free Trade Association, and supports essential requirements of EC Directive(s).

For relationship with EC Directive(s), see informative Annexes ZA, and ZB, which are integral parts of this document.

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Introduction

This European Standard is a type C standard as defined in EN ISO 12100-1:2003.

The machinery concerned and the extent to which hazards, hazardous situations and hazardous events are covered are indicated in the scope of this European Standard.

When provisions of this type C standard are different from those which are stated in type A or B standards, the provisions of this type C standard take precedence over the provisions of the other standards for machines that have been designed and built according to the provisions of this type C standard.

1 Scope

This European Standard covers essential health and safety requirements for the design of blow moulding machines for the processing of plastics. The significant hazards inherent in blow moulding machines are listed in Clause 4.

This European Standard does not cover dip blow moulding machines.

This European Standard does not cover hazards due to the use of fluorine or other toxic fluids.

The safety requirements for the interaction between blow moulding machines and ancillary equipment are stipulated. The technical safety requirements for the design of this equipment are not covered.

This European Standard does not cover the requirements for the design of the exhaust system.

The European Standard does not cover noise hazards.

This European Standard is not applicable to blow moulding machines which are manufactured before the date of its publication as an EN. A transition period until 29 December 2009 is foreseen during which the manufacturer may choose to apply either this or the previous version of the standard.

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 953, Safety of machinery — Guards — General requirements for the design and construction of fixed and movable guards

EN 982:1996, Safety of machinery — Safety requirements for fluid power systems and their components — Hydraulics

EN 983:1996, Safety of machinery — Safety requirements for fluid power systems and their components — Pneumatics

EN 999:1998, Safety of machinery — The positioning of protective equipment in respect of approach speeds of parts of the human body

EN 1760-2:2001, Safety of machinery — Pressure sensitive protective devices — Part 2: General principles for the design and testing of pressure sensitive edges and pressure sensitive bars

EN 60204-1:2006, Safety of machinery — Electrical equipment of machines — Part 1: General requirements (IEC 60204-1:2005, modified)

EN 60529:1991, Degrees of protection provided by enclosures (IP Code) (IEC 60529:1989)

EN 61000-6-2:2001, Electromagnetic compatibility (EMC) — Part 6-2: Generic standards; Immunity for industrial environments (IEC 61000-6- 2:1999, modified)

EN 61000-6-4:2001, Electromagnetic compatibility (EMC) — Part 6-4: Generic standards; Emission standard for industrial environments (IEC 61000-6-4:1997, modified)

EN 61496-1:1997, Safety of machinery — Electro-sensitive protective equipment — Part 1: General requirements and tests (IEC 61496-1:1997)



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