

ANSI/SPI B151.4-1999

American National Standard

*for Plastic Blown Film Machinery –
Manufacture, Care & Use*

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ANSI/SPI B151.4-1999

Revision and redesignation of
ANSI B151.4-1982 (R1988)

American National Standard
for Plastic Blown Film Machinery –
Manufacture, Care & Use

Secretariat

The Society of the Plastics Industry, Inc.

Approved August 11, 1999

American National Standards Institute, Inc.

American National Standard

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Foreword (This foreword is not part of American National Standard ANSI/SPI B151.4-1999.)

This standard is a revision of *American National Standard for Plastics Machinery - Blown Film Takeoff and Auxiliary Equipment - Construction, Care, and Use*, ANSI B151.4-1982 (R1988).

A standard treating the manufacture, care and use of plastic blown film machinery is complicated by the wide variety and sizes of machines manufactured and in use, and by the virtually infinite combinations of parts being produced, production methods being used, and operating conditions existing in industry today.

The primary objective of this standard is to minimize hazards to personnel associated with machine activity by establishing requirements for the manufacture, care and use of these machines. To accomplish this objective, a decision was made to approach the problem of machine safety as follows:

- a) Eliminate by design certain recognized hazards and the establishment of standard approaches to design so that machines available from competitive manufacturers will have similar operational characteristics.
- b) Safeguard the machine where recognized hazards cannot be designed out for technical or operational reasons.
- c) Warn where elimination or safeguarding of hazards is not technically or operationally feasible.

To assist in the interpretation of these requirements, responsibilities have been assigned to the manufacturer, re-manufacturer, the modifier, and the employer.

Recognizing the impossibility of updating equipment and changing operation methods allied with existing machines immediately after approval date of this standard, a 3-year period has been provided to employers for updating machines.

Recognizing the impossibility of immediate updating of design and manufacturing methods, clauses 4 and 5 shall become effective one year after the approval date of this standard.

Evidence of consensus on this standard was secured by use of the Canvass Method.

Suggestions for improvement of this standard will be welcome. They should be sent to The Society of the Plastics Industry Inc., 1801 K Street NW, Suite 600, Washington, DC 20006-1301.

The Society of the Plastics Industry Extrusion Section - Standards Development Committee on Machinery Standards was responsible for developing this standard.

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Explanation of Standard Format

This standard uses a two-column format to provide both specific requirements and supporting information.

The left column, designated "Standard Requirements" is confined solely to these requirements and is printed in bold type. Where supporting photographs or sketches are required, they are designated as "figures."

The right column, designated "Explanatory Information" contains only information that is intended to clarify the standard. This is *not* a part of the standard. Where supplementary photographs or sketches are required, they are designated as "illustrations."

Operating rules (safe practices) are not included in either column unless they are of such nature as to be vital safety requirements, equal in weight to other requirements or guides to assist in compliance with the standard.

American National Standard for Plastic Blown Film Machinery – Manufacture, Care and Use

STANDARD REQUIREMENTS

1 Scope, Purpose, and Application

1.1 *Scope*

The requirement of this standard shall apply to blown film collapsing, nip rolls, in line bag sealers, separators, and folders (Machinery).

Safety requirements of ancillary equipment used with the Machinery are not covered by this standard.

1.2 *Purpose*

The purpose of this standard is to identify and address known hazards to personnel working on, or adjacent to the Machinery.

1.3 *Application*

1.3.1 *New Installation*

The requirements of this standard pertaining to manufacture shall apply to all new or remanufactured Machinery installed in the United States, of America. Compliance shall be achieved within one year of the approval date of this standard. Date of shipment (month and year) shall be affixed to the Machine permanently and legibly along with the name of the manufacturer or remanufacturer.

1.3.2 *Existing Installations*

The employer is responsible for bringing existing Machines into compliance with the requirements of this standard within three years of the approval date of this standard with the following specific exception:

- the 4 inches dimension referred to in subclauses 3.13 and 5.3.1.1 shall be changed to 3 inches.

EXPLANATORY INFORMATION

E1.1 *Scope*

Inquiries with respect to the application or the substantive requirements of the standard should be addressed to the Society of the Plastics Industry, Inc, 1801 K Street NW, Suite 600, Washington, DC, 20006-1301.

E1.3.2 *Existing Installations*

If modifications are required to achieve this reduced dimension the employer is strongly encouraged to use 4 inches, if at all possible.