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NATIONAL STANDARD OF THE
PEOPLE'S REPUBLIC OF CHINA

GB/T 6342-1996

ISO 1923-1981

Replacing GB 6342-86

**Cellular plastics and rubbers - Determination of linear
dimensions**

泡沫塑料与橡胶 线性尺寸的测定

Approved on: April 10, 1996 Implementation date: December 1, 1996

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Cellular plastics and rubbers - Determination of linear dimensions

This standard is identical to the international standard ISO 1923-1981 *Cellular plastics and rubbers - Determination of linear dimensions*.

1 Subject content and applicable scope

This standard specifies the characteristics and the choice of the measuring equipment and procedure for determination of the linear dimensions of sheets, blocks or test specimens of cellular material (flexible and rigid).

This standard is applicable to the determination of linear dimensions of cellular plastics and rubbers.

2 Definitions

linear dimension: the shortest distance between two specific points, between two parallel lines or between two parallel planes, defined by corners, edges or surfaces of the cellular specimen

3 Instruments and devices

3.1 Dial gauge with a measuring surface of about 10cm². The gauging pressure shall be 100±10Pa, and the reading accuracy shall be 0.05mm, as shown in Annex A.

3.2 Micrometer: having a measuring surface with a minimum diameter of 5mm, but in any case not less than 5 times the average diameter of the cells, permitting reading with an accuracy of 0.05mm.

Use of a micrometer is restricted to rigid cellular materials.

3.3 Sliding caliper: with a vernier permitting reading to an accuracy of 0.1mm.

The median of 3 readings at each position shall be taken and the average of the 5 or more median values calculated.

4.3 Measurement with dial gauge

The measurement shall normally be made on a base plate. The base plate must be larger than the largest dimension of the specimen that is supported by the base plate. The specimen shall rest flat upon the base plate during the measurements.

The readings of the dial gauge shall be rounded off to the nearest 0.1mm.

4.4 Measurement with micrometer

For the measurement, the plane surfaces of the micrometer shall be continuously brought together until they just touch the cellular material, without causing any distortion or damage of the surface of the specimen. The specimen shall be moved slightly back and forward. Simultaneously the plane surfaces of the micrometer shall be slowly brought together until a slight resistance to the movement is felt.

The area of the measuring surface may be increased by measuring over metal sheet or plate.

The readings of the micrometer shall be rounded off to the nearest 0.1mm.

4.5 Measurement with sliding caliper

The readings of the sliding caliper shall be rounded off to the nearest 0.2mm.

The caliper shall be progressively preset to smaller measurements and presented to the specimen until the setting is reached when the caliper measuring faces just touch the surfaces of the specimen without any compression or damage to the latter.

4.6 Measurement with metal rule or metal tape

The cellular material shall not be distorted or damaged by the application of the metal rule or metal tape.

The metal rule or metal tape measurements shall be rounded off to the nearest 1mm.

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