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British Standard Methods of test for **Rigid cellular materials**

Part 1. Methods 1 to 5

Méthodes d'essai des matériaux alvéolaires rigides
Partie 1. Méthodes 1 à 5

Verfahren zur Prüfung von Hartschaumstoffen
Teil 1. Verfahren 1 bis 5

Foreword

This Part of BS 4370 has been prepared under the direction of the Plastics and Rubber Standards Committees and is a revision of BS 4370 : Part 1 : 1968, which is withdrawn. The methods of test described here are intended to apply to rigid cellular products of polymeric origin, and are not necessarily suitable for testing rigid cellular materials of inorganic origin.

Many rigid cellular products and test specimens are not isotropic. This is usually ascribed to the fact that the cells in the materials are elongated in a particular direction. This direction is referred to in this standard as the direction of anisotropy. Tests carried out in this direction usually give results differing in magnitude from those carried out in other directions.

The direction of anisotropy may vary from place to place in a product, hence the number of test specimens required in product specifications may be greater than those given herein.

Several of the methods described in this standard are based on standards prepared by Technical Committee 61, Plastics, of the International Organization for Standardization (ISO). The corresponding international standard, if any, is indicated in a note immediately following the title of each method. In this revision the methods have been realigned where appropriate with revisions made to the corresponding international standards.

Attention is drawn to BS 4370 : Parts 2 to 4 which deal with other methods of test for rigid cellular materials as follows.

Part 2. Method 6. Determination of shear strength and shear modulus

Method 7. Measurement of thermal conductivity

Method 8. Measurement of water vapour transmission

Method 9. Determination of tensile strength

Method 10. Determination of the volume percentage of closed cells

Part 3. Method 12. Determination of friability

Method 13. Measurement of the coefficient of linear thermal expansion at low temperatures

Part 4*. Method 14. Determination of flexural properties

Method 15. Determination of apparent water absorption

Compliance with a British Standard does not of itself confer immunity from legal obligations.

* In preparation.