

Method of specifying

Thermoplastics injection mouldings —

Part 1: General requirements

Committees responsible for this British Standard

The preparation of this British Standard was entrusted by the Plastics and Rubber Standards Policy Committee (PRM/-) to Technical Committee PRM/35, upon which the following bodies were represented:

- Association of Electronics, Telecommunications and Business Equipment Industries (EEA)
- British Plastics Federation
- British Telecommunications plc
- Department of Trade and Industry (National Physical Laboratory)
- ERA Technology Limited
- Electrical Installation Equipment Manufacturers' Association (BEAMA)
- Ministry of Defence
- PERA International
- RAPRA Technology Limited
- Society of Motor Manufacturers and Traders Limited

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Foreword

This Part of BS 7029 has been prepared under the direction of the Plastics and Rubber Standards Policy Committee from an initial draft submitted by the Ministry of Defence.

It describes a method of specifying only and should not be used or quoted as a specification for thermoplastics injection mouldings. References to this standard should indicate that the method of specifying thermoplastics injection mouldings used is in accordance with BS 7029.

It permits purchasers, designers or users to specify a moulding for a particular application. Designers and specifiers should satisfy themselves that the design requirements are met by means of the method of specifying in this standard in conjunction with the relevant drawing.

Certain parameters covered by this standard are fixed and the manufacturer is required to confirm that the product conforms to them while the value of other parameters may be taken from a range of values and is required to be stated.

The objectives of this standard are to give methods of specifying the properties of thermoplastics injection mouldings, to establish a selection of characteristics on which the specifier states the requirements and to specify the methods of test in order to verify conformity with claimed or assumed properties. It includes manufacturing and general requirements as well as requirements for marking products and containers.

The standard contains a number of quality control tests often specific to particular materials, the significance of which may not at first sight be apparent. Accordingly an explanatory Annex A has been included for the guidance of users in this respect. For aerospace applications attention is drawn to the provisions of BS 3G 100, *Specification for general requirements for equipment for use on aircraft*.

This Part gives the method of specifying to be used by the purchaser for general requirements applicable to all mouldings, whilst Part 2 details the method of specifying additional requirements for mouldings made from respectively, polycarbonate, polyamide and polyethylene materials.

It is intended that Part 3 will give the methods of specifying the additional requirements of mouldings made from the following materials:

- acrylonitrile-butadiene-styrene (ABS);
- polyoxymethylene (polyacetal) (POM);
- polyether sulfone (PES);
- modified polyphenylene oxide (PPO);
- polypropylene (PP).

WARNING. This standard calls for the use of substances and/or test procedures that may be injurious to health if adequate precautions are not taken. It refers only to technical suitability and in no way absolves either the supplier or the user from statutory obligations relating to health and safety at any stage of manufacture or use.

NOTE Attention is drawn to several references in the text and in notes to the need to apply to Customer Services, Information Services Group, BSI, Linford Wood, Milton Keynes, MK14 6LE, for information on suitable equipment.