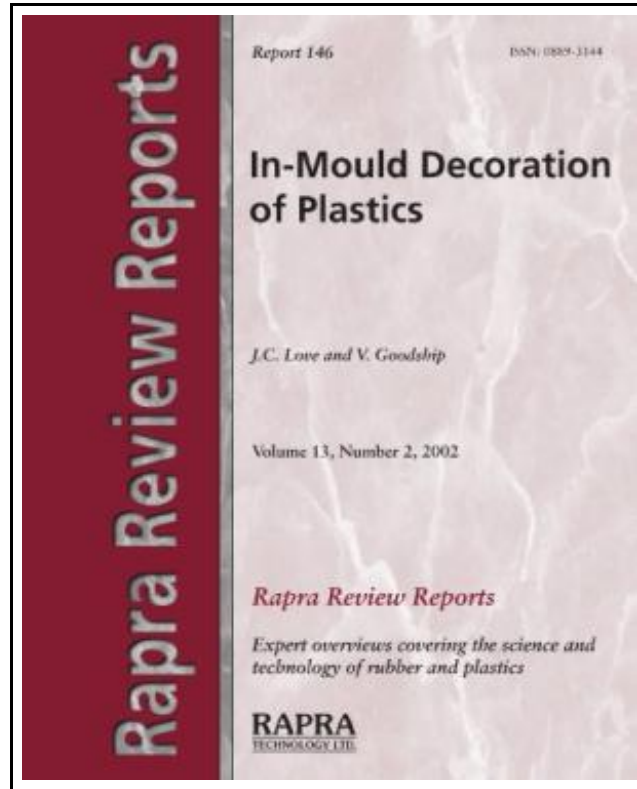


In-mould Decoration of Plastics



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(Ernest Vandervort)

IN-MOULD DECORATION OF PLASTICS



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Ismithers Rapra Publishing, United Kingdom, 2002. Paperback. Book Condition: New. 294 x 206 mm. Language: English Brand New Book ***** Print on Demand *****.Many plastic components need to have a surface finish applied before use. This can act as a decorative layer, a protective layer, to smooth out surface defects, or to alter surface properties (for example, to enhance adhesion). If this surface effect is applied during the moulding process, it can reduce time, space, material and machinery requirements. It also allows processors to supply complete systems, rather than just moulded components. In-mould decoration techniques include the in-mould application of film, in-mould priming, in-mould labelling and the injection of paints into the mould. In-mould decoration generally requires additional equipment, which can be expensive. Design is also critical for success. These factors need to be taken into consideration in corporate planning. In-mould films are prepared by multi-layer extrusion or solvent casting. They can be single colour or highly patterned with detailed graphics. They are stretched across a mould prior to injection, compression or blow moulding to produce a variety of decorative effects. customer personalisation of products such as cars and mobile phones. Changing design between moulds is as simple as changing a roll of film. Film preparation is also discussed in this review. Coatings comprising thermoplastic, pseudo-thermoplastic and uncured thermosetting materials can be injected or extruded into a mould. Here they act as paints in compression injection moulding and co-injection moulding. An additional benefit is that in-mould painting can reduce the release of volatile organic compounds (VOCs) into the atmosphere, which is a common problem in paint shops. In-mould labelling can eliminate the requirement for adhesive. In the first example of this practice, paper labels for ice cream container lids were inserted into the mould prior to injection. Labels can also...



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