

Announcing the publication of a practical study of the production and potential of multilayered plastic films

A new book published by Plastics Information Direct explores and explains the three key processes used to manufacture multilayered plastic films: extrusion coating, lamination and coextrusion. Films for applications such as food packaging and medical products demand a range of properties such as heat-sealability, puncture resistance, controlled gas transmission, product resistance, transparency or opacity and the ability to be printed and sterilized. Multilayer film structures provide properties and performance which could not be achieved by a single material, whilst also exploiting cheap and easily processed polymers – primarily polyethylene. All three processes described can be used in their manufacture, and in combination they provide yet more options and benefits. One role of this book is to explain when each should be used.

Described as a complete process manual, this practical book is written for the industry professional engaged in the development, production or specification of films. It will enable the reader to optimize product performance and evaluate the most cost effective solutions, with useful information on the key polymers and substrates used.

This is a practical process manual filled with useful advice, describing the effects of machine design, process variables and materials selection. The guiding principle applied in this manual is that of cause and effect. This is achieved by integrating experimental data and computer modelling with the author's extensive experience to arrive at conclusions and recommendations based on quantitative data. The author, Bert Gregory, spent 35 years working in the plastics industry. He also offers sufficient theory for the student or industry newcomer who wishes to understand how the processes work. Designers and end-users will find plenty of information on the properties and performance that can be obtained. Clear illustrations are provided throughout.

Extrusion Coating, Lamination and Coextrusion: The complete process manual (published November 2012) is available in hardback format with 316 pages, priced at €150 or £125 or \$200 (plus delivery). Copies may be ordered online from www.pidbooks.com, or from the publications department at Applied Market Information Ltd, AMI House, 45-47 Stokes Croft, Bristol BS1 3QP, United Kingdom, Telephone: +44 (0)117 924 9442, Fax: +44 (0)117 989 2128, Email: pidbooks@amiplastics.com.