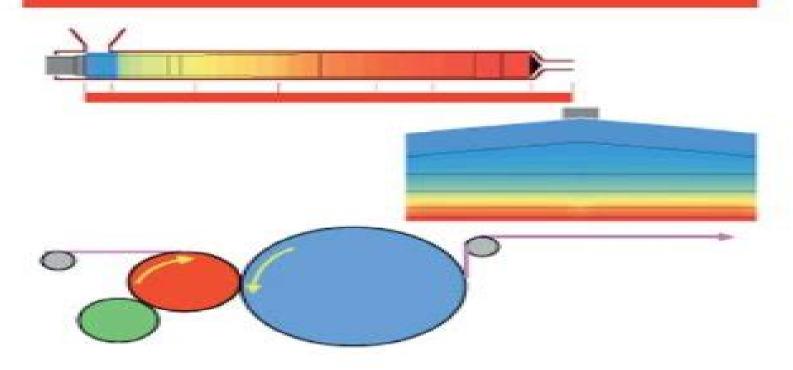
# EXTRUSION COATING A PROCESS MANUAL

B. H. GREGORY



# **Extrusion Coating A Process Manual B H Gregory**

**Arthur James Wells** 

# **Extrusion Coating A Process Manual B H Gregory:**

**Extrusion Coating** B. H. Gregory, 2008-05-28 This comprehensive study of extrusion coating technology describes the process and applications in detail combining experimental data with computer modeling and the author's 30 years of experience This methodology provides insight clarity and assistance in problem solving process optimization and new product development The oportunities to exploit a wide range of polymers by the extrusion coater are discussed in detail These include LDPE HDPE PP ionomers copolymers and blends and speciality materials such as EVOH and PET Everything you wanted to know about Screw and die design for mono and coextrusion Chill roll design and winders Maximizing adhesion at high line speeds time in air gap and melt relaxation Adhesion promotion corona flame ozone treatment and chemical primers Feedblock and dual manifold coextrusion compared Coextrusion control layer arrangement and eliminate interfacial instabilities Optimize melt stability and minimize neck in in air gap Material selection polyethylenes copolymers ionomers metallocenes polypropylene etc Substrates pulp and paper aluminium foil plastic films etc Applications for extrusion coatings and laminates Minimize odor and off taste and the scalping phenomenon in food packaging Trouble shooting and many more insights Target Audience Engineers marketers technicians and students involved with the extrusion coating process Table of Contents The Extrusion Coating Process Equipment and Screw Design Die Design Stretching Flows and Neck In Adhesion Coextrusion Adhesion Promotion Methods Polymers for Extrusion Coating includes coplymers ionomers PP blends metallocene PEs Speciality Polymers EVOH and PET Improving organoleptic properties Substrates and Films for the EXtrusion Coater Extrusion Coated Products and Applications The Science and Technology of Flexible Packaging Barry A. Morris, 2022-07-23 The Science and Technology of Flexible Packaging Multilayer Films from Resin and Process to End Use Second Edition provides a comprehensive quide on plastic films in flexible packaging covering scientific principles materials properties processes and end use considerations Sections discuss the science of multilayer films in a concise and impactful way presenting the fundamental understanding required to improve product design material selection and processes In addition the book includes information on why one material is favored over another and how film or coating affects material properties Descriptions and analysis of key properties of packaging films are provided from engineering and scientific perspectives With essential scientific insights best practice techniques environmental sustainability information and key principles of structure design this book provides information aids in material selection and processing how to shorten development times and deliver stronger products and ways to enable engineers and scientists to deliver superior products with reduced development time and cost Provides essential information on all aspects of multilayer films in flexible packaging including processing properties materials and end use Bridges the gap between scientific principles and practical challenges Includes explanations to assist practitioners in overcoming challenges Enables the reader to address new challenges such as design for sustainability and eCommerce Polyethylene Film Extrusion B. H Gregory, 2009-11 A revised

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