

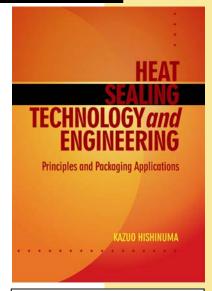
NEW Comprehensive Manual on Heat Sealing

Heat Sealing Technology and Engineering

Principles and Packaging Applications

Kazuo Hishinuma

Translated by: Hiroaki Miyagawa



Publication Details: ISBN: 978-1-932078-85-5 , Fall 2008 Approx. 250 Pages, 6x9, hardcover **Price: \$175.00**

- A complete introduction to all phases of heat sealing
- Presents new and more reliable measuring methods to control heat seal quality
- Offers novel methods for using peel seal and tear seal
- Applies to all types of packaging and polymers, including laminates and biodegradable materials

This book is the first to cover all phases of heat sealing as it relates to packaging. Beginning with the basics of heat sealing processes and thermoplastic materials, the book explains, with numerous formulas and original experimental data, all the key parameters. With this information, the author presents new ways to improve the reliability of heat sealing—and the quality of heat-sealed packaging. Novel monitoring techniques are provided that enable packaging engineers to better control parameters that lead to safer, more effective seals in pouches, bags and cups, and with different materials, including laminates. Specifically, the author shows how important it is to have accurate measurement of the melting surface. The book explains techniques for carrying out such measurements and demonstrates how they lead to better heat seal process control. These techniques, along with novel ways of using the peel seal and tear seal, are explained in practical terms, to assist engineers to troubleshoot and eliminate problems encountered in heat sealing, e.g., overheating, polyball, and packaging failure. Hundreds of illustrations and numerous case studies support the practical information in this book. The technical data found in this resource is a necessary supplement to JIS and ASTM standards.

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About the Author

Dr. Kazuo Hishinuma is currently chief executive of Hishinuma Consulting in Kawasaki, Japan. Prior to this position he worked for Ajinmoto Company, Ltd. as an engineer. Dr. Hishinuma earned his doctorate at the University of Tokyo, and is the author of numerous articles and book chapters on the subject of heat sealing and packaging. In July of 2008 he will receive a major prize and grant from the Japanese Society of Packaging Science & Technology for his contributions to the advancement of heat sealing technology.

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