



Plastics Additives and Testing

By Muralisrinivasan Natamai Subramanian

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“*Plastics Additives and Testing*” is a practical book for engineers and operators and discusses both inorganic and organic chemicals that are widely used as additives in plastics processing operations.

It is common practice today to use analytical techniques to improve plastics processing. Because it is critically important to manufacture quality products, a reasonable balance must be drawn between control requirements and parameters for improved processing method with respect to plastics additives. This book serves to implement this balance in the manufacturing line.

Written by a successful, international consultant with an excellent publishing track record, it combines plastics additives, testing and quality control and is a valuable and critical book for engineers and operators to have when performing their tasks.

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Plastics Additives and Testing By Muralisrinivasan Natamai Subramanian Bibliography

- Sales Rank: #5107930 in Books
- Brand: Brand: Wiley-Scrivener
- Published on: 2013-04-08
- Original language: English
- Number of items: 1
- Dimensions: 9.55" h x .70" w x 6.35" l, 1.00 pounds
- Binding: Hardcover
- 240 pages

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Editorial Review

From the Back Cover

Presents a thorough overview of the many types of plastics additives, the multiple testing techniques used by industry, as well as the quality control measures to ensure the formulation will result in high-quality product.

It is common practice today to use analytical techniques to improve plastics processing. Because it is critically important to manufacture quality products, a reasonable balance must be drawn between control requirements and parameters for improved processing methods with respect to plastics additives. This book speaks to implementing this balance in the manufacturing line.

Plastics Additives and Testing is a practical book for engineers and operators. It discusses both inorganic and organic chemicals that are widely used as additives in plastics processing operations. Testing the formulation is now an integral part of the process so that the raw materials used in plastics processing are subject to quality control. Instrumental methods used in plastics additive testing have the ability to control experiments on plastics processing, collect data, and perform calculations, as well as provide increased efficiency and reduce waste during processing.

This important and concise book written by an expert practitioner elucidates the complex yet broadening world of plastics additives and the testing techniques. Highlights include:

- The various types of additives as well as their chemistry
- Organic and inorganic additives
- Additives and the multiple plastics processes
- The identification of additives
- The testing of additives through various systems such as thermogravimetric mass spectrometry, gas chromatography, and FTIR spectroscopy

Readership

Plastics Additives and Testing is aimed at industry and manufacturing such as operators, formulators, processors, engineers, and chemists. In addition, the book is ideal for technical seminars in industry or courses in engineering and technology schools that teach polymers or plastics technology at both the graduate and postgraduate levels.

About the Author

Muralisrinivasan Subramanian is a plastics technology consultant specializing in materials, additives, and processing equipment, including troubleshooting. He obtained his BSc in chemistry from the Madurai Kamaraj University and his MSc in polymer technology from Bharathiar University. He received his postgraduate diploma in plastics processing technology from CIPET, Chennai. He has also completed his PhD in polymer science from Madurai Kamaraj University. Dr. Subramanian worked in the plastic process industry, mainly in R & D, for thirteen years before turning to consultancy and building up an international client base. He teaches plastics processing seminars as well as being a Board of Studies expert member of colleges in India, advising on curriculum issues with regard to technology subjects.

Users Review

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Eric Chabot:

People live in this new time of lifestyle always aim to and must have the time or they will get wide range of stress from both everyday life and work. So , if we ask do people have extra time, we will say absolutely indeed. People is human not just a robot. Then we request again, what kind of activity are you experiencing when the spare time coming to anyone of course your answer will probably unlimited right. Then do you try this one, reading books. It can be your alternative inside spending your spare time, the actual book you have read is definitely Plastics Additives and Testing.

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