How to peel the pigtail during meltblown fiber processing

Overview

Fiber Strippers: These are specialized tools designed to peel away the outer buffer and the microscopic coating of the fiber without scratching or nicking the glass core. High-Precision Cleaver: You cannot use scissors or standard snips for this. The melt blown process is a nonwoven manufacturing system involving direct conversion of a polymer into continuous filaments, integrated with the conversion of the filaments into a random laid nonwoven fabric. First developments in this field of technology in the industrial area started around. Abstract: The characteristics of molten polymer plays a major role in fiber formation in the melt blowing (MB) process. In this paper, the Maxwell model and two kinds of the standard linear solid (SLS) models in the bead-viscoelastic element model are proposed for melt blown fiber formation. Melt blowing is a conventional fabrication method of micro- and nanofibers where a polymer melt is extruded through small nozzles surrounded by high speed blowing gas. We have developed a model for simulating melt-blowing production to investigate the formation mechanism of a fiber assembly.

Article Content

74-79 15721(o)

In this paper, the Maxwell model and two kinds of the standard linear solid (SLS) models in the bead-viscoelastic element model are proposed for melt blown fiber formation simulation. The fiber ...

Melt blowing

Melt blowing is a conventional fabrication method of micro- and nanofibers where a polymer melt is extruded through small nozzles surrounded by high speed blowing gas. The randomly deposited ...

(PDF) Effect of Process Parameters on Fiber Diameter and Fiber ...

As the performance properties of meltblown nonwovens are mainly determined by the fiber diameter and diameter distribution, this study focused on these two characteristics considering ...

Melt blowing technology

Melt blowing technology involves the controlled melting of thermo plastic polymers and subsequent transfer and metered distribution to a multi-orifice nose-piece. Polymer exiting from these orifices ...

Melt Blown Process

The key difference between the spunbonded process and melt-blowing is in the die assembly. In the melt-blown process hot air converges with the fiber as it emerges from the die, whereas in the ...

Melt Blowing Process, Properties and Application

Non-uniform distribution of fiber in the air stream can result from poor die design and from non-uniform ambient airflow into the air stream. The vacuum under the forming media should be ...

Overview of the Fiber Dynamics during Melt Blowing

Melt blowing (MB) is an industrial process used in producing microfibrous nonwoven materials. Over the past decades, a considerable amount of theoretical and experimental research ...

Modeling and experimental study of pore structure in melt-blown ...

We have developed a model for simulating melt-blowing production to investigate the formation mechanism of a fiber assembly. In this study, we calculated the pore size under different production ...

How to Splice Fiber Optic Pigtails: A Step-by-Step Guide

Master the art of fiber termination. Learn how to splice fiber optic pigtails using fusion splicing, follow the color code, and ensure low insertion loss.

Modeling the Mono

In this study, fibre splitting of the bico meltblown webs is investigated by several approaches, including hydroentanglement, hot water treatment, benzoic acid treatment, and alkali ...

Investigation of the Physical Characteristics of Polypropylene ...

Meltblowing is a unique system since the process generates a fine fiber not available to the other nonwoven processes. Because the micro-denier fiber (less than 0.1 denier per filament) is not really ...

Contact Us

For more information, pricing, or custom solutions, please contact us:

Website: https://www.automationauthoritysolar.co.za
Email: info@automationauthoritysolar.co.za
Phone: +27 82 547 3961
Address: 15 Quantum Street, Technopark, Centurion, 0157, South Africa

This document is for informational purposes only. Specifications subject to change without notice.