

Ultrasonic Welding Of Polyamide Influence Of Moisture On

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The welding of hygroscopic materials such as polyamide can lead to unstable conditions during the welding process. Due to changing material properties, the ultrasonic welding process is influenced heavily by the moisture level of the welding parts. To achieve stable welding processes and high weldline qualities, it is necessary to understand the influence of moisture on the material properties and the ultrasonic welding process.

Ultrasonic welding of polyamide—influence of moisture on ...

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Ultrasonic welding of polyamide-influence of moisture on the process relevant material properties . By Christian Hopmann and Anika van Aaken. Cite . BibTex; Full citation; Publisher: Springer [u.a.] Year: 2014. DOI identifier: 10.1007/s40194-014-0158-3. OAI identifier: oai ...

Ultrasonic welding of polyamide-influence of ... - CORE

Ultrasonic Welding Of Polyamide Influence The welding of hygroscopic materials such as polyamide can lead to unstable conditions during the welding process. Due to changing material properties, the ultrasonic welding process is influenced heavily by the moisture level of the welding parts. To

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Downscaled tensile specimens were manufactured using ultrasonic molding on polyamide pellets not only to obtain specimens, but also to investigate the influence of the processing conditions on process performance and material characterization. A modeling approach is proposed to assess the energy flow involved in the process.

Influence of processing conditions on manufacturing ...

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Ultrasonic welding is one of the most popular methods for joining plastics and it is becoming an important method for welding polymeric composites. This chapter first describes the theory of ultrasonic welding including viscoelastic heating and the difference between near-field and far-field ultrasonic welding.

Ultrasonic Welding - an overview | ScienceDirect Topics

The process of ultrasonic welding of plastics is achieved by applying a vibrating metal tool (horn) at 90° to the stationery plastic parts which then vibrate. When combined with pressure, friction produces heat & melts the parts at the horn contact point. Once cooled down a solid homogeneous weld between the 2 parts is created.

Ultrasonic Welding of Plastics – Materials Guide

Which are weldable plastics? There are thermoplastic materials, elastomers, and thermoset resins: Thermoplastic materials are plastics that are processed by heat and are well suited for ultrasonic welding. Elastomers are plastics that are processed by means of cross-linking; they do not react to ultrasonics.

Which are weldable plastics? - Herrmann Ultrasonics

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polyamide using ultrasonic welding technology is much poorer than linear vibration and hot-plate welds (see Tables 1- 2). INFLUENCE OF ABSORBED MOISTURE ON LASER WELDING OF POLYAMIDE 6:

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Ultrasonic welding has been widely used in joining plastic parts since it is fast, economical, and suitable for automation. It also has great potential for joining thermoplastic composite structures in the aerospace and automotive industries. For a succes...

Weld Quality Prediction in Ultrasonic Welding of Carbon ...

The ultrasonic welding (UW) technique is an ultra-fast joining process used to join thermoplastics, metals and thermoplastic polymer matrix composites. It provides an excellent bonding strength with minimum welding time range from 0.5 s to 5 s depending on the type of material.

A hands-on guide to choosing and using old and new technologies for joining plastics and elastomers. Includes detailed discussions of over 25 techniques used to join plastics to themselves and to other materials. Advantages and disadvantages of each technique along with detailed discussions of applications are presented. A second section is organized by material and provides details of using different processes with over 50 generic families of plastics and how different techniques and operating parameters affect weld strength and other criteria. This book is an excellent reference and an invaluable resource for novice and expert alike in determining the best joining technique for their application and providing guidance in how to design and prepare for production.

The new edition of this bestselling reference provides fully updated and detailed descriptions of plastics joining processes, plus an extensive compilation of data on joining specific materials. The volume is divided into two main parts: processes and materials. The processing section has 18 chapters, each explaining a different joining technique. The materials section has joining information for 25 generic polymer families. Both sections contain data organized according to the joining methods used for that material. * A significant and extensive update from experts at The Welding Institute * A systematic approach to discussing each joining method including: process, advantages and disadvantages, applications, materials, equipment, joint design, and welding parameters * Includes international suppliers' directory and glossary of key joining terms * Includes new techniques such as flash free welding and friction stir welding * Covers thermoplastics, thermosets, elastomers, and rubbers.

This report considers each of the most important thermoplastic materials in turn, and explains the characteristics which affect the choice of pre-treatment, joining method and adhesives. Thermosetting materials are considered as a single group with essentially similar properties with respect to bonding. Many practical examples are provided by some 387 references and abstracts which have been selected from the Rapra Polymer Library database to complete the report.

Lists citations with abstracts for aerospace related reports obtained from world wide sources and announces documents that have recently been entered into the NASA Scientific and Technical Information Database.

Materials, Design and Manufacturing for Lightweight Vehicles, Second Edition, features the requirements for processing each material type, explains the manufacture of different categories of components, and analyzes different component joining techniques. The properties of all materials, metals, polymers and composites currently used are included along with how each one influences structural design. The new edition also contains refinements to manufacturing processes in particular hot stamping of boron steel and aluminum alloy, and new chapters on designing lightweight automotive structures & lightweight materials for powertrains and electric vehicles. With its distinguished editor and renowned team of contributors, this is a standard reference for practicing engineers involved in the design and material selection for motor vehicle bodies and components as well as material scientists, environmental scientists, policy makers, car companies and automotive component manufacturers. Fully updated including emphasis on optimized production methods for steels, aluminum alloys, polymers and polymer

composite Covers aspects related to the production of environmentally acceptable leading-edge automobiles Explores the manufacturing process for light alloys including metal forming processes for automotive applications as well as new developments in steel technology that are making advanced high strength steels more attractive for lightweight vehicles

This book provides a comprehensive account of developments in the area of lightweight polymer composites. It encompasses design and manufacturing methods for the lightweight polymer structures, various techniques, and a broad spectrum of applications. The book highlights fundamental research in lightweight polymer structures and integrates various aspects from synthesis to applications of these materials. Features Serves as a one stop reference with contributions from leading researchers from industry, academy, government, and private research institutions across the globe Explores all important aspects of lightweight polymer composite structures Offers an update of concepts, advancements, challenges, and application of lightweight structures Current status, trends, future directions, and opportunities are discussed, making it friendly for both new and experienced researchers.

This report covers semi and non-crystalline thermoplastics, polymer blends and various classes of reinforcing fibres, and the properties which determine their suitability for specific applications. A detailed discussion of the injection moulding of reinforced thermoplastics includes the effect of processing on fibre distribution and breakage. An additional indexed section containing several hundred abstracts from the Rapra Polymer Library database provides useful references for further reading.

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