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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 achieve stable welding processes and high weldline qualities, it is necessary to understand the influence of moisture on the material properties ...

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Ultrasonic welding of polyamide—influence of moisture on the process relevant material properties Article in *Welding in the World, Le Soudage Dans Le Monde* 58(6):787-793 · November 2014 with ...

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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.

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Influence of processing conditions on manufacturing polyamide parts by ultrasonic molding. ... An adapted ultrasonic welding pneumatic press with a 1500 W ultrasonic ... because the slopes are higher, especially for the ultrasonic time. On comparing both parameters, the influence of ultrasonic time is higher than that of ...

Influence of processing conditions on manufacturing ...

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Ultrasonic welding of polyamide—influence of moisture on ...
Sensors and electrical components are not only used in industrial manufacturing but also in automation engineering or in daily use.

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Ultrasonic welding is well suited for a large number of automotive components, where high part counts and appropriate

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strength are required. These include many parts made of thermoplastic materials for interior and exterior applications, and engine compartments, but also of nonferrous metals for cable harnesses and lithium-ion batteries:

Which are weldable plastics? - Herrmann Ultrasonics

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A. Benatar, in Power Ultrasonics, 2015. Abstract. 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

Ultrasonic welding is an industrial process whereby high-frequency ultrasonic acoustic vibrations are locally applied to workpieces being held together under pressure to create a solid-

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state weld. It is commonly used for plastics and metals, and especially for joining dissimilar materials. In ultrasonic welding, there are no connective bolts, nails, soldering materials, or adhesives necessary to ...

Ultrasonic welding - Wikipedia

mechanical performance of polyamide with the influence of moisture effects: ... The LTW is found to be more effective than ultrasonic welding for joining of wet PA containing moisture up to 4 wt.%.

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Plastics can be joined with several methods, ranging from snap fits through adhesive bonding to welding processes. 28-32 Ultrasonic welding is one of the most frequently used welding technologies, especially in the electric, electronic and

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automotive industries. 33 A major advantage of this technology is that it is fast, economic to use in large series production and can also be easily ...

Ultrasonic welding of all-polypropylene composites - Kiss

...

Ultrasonic Welding Ultrasonic welding is a unique method of joining two parts together without using additional fasteners, adhesives or mechanical features like snap fit or living hinges. Compared with other welding methods - which include heat staking, hot plate welding, spin welding, and vibration welding - ultrasonic welding offers ...

Ultrasonic Welding - Solvay

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properties, the ultrasonic welding process is influenced heavily by the moisture level of the welding parts. To

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Ultrasonic welding of plastic is state-of-the-art technology. The thermal rise in the bonding area is produced by absorption of vibrations introduced. In the contraction area, frictional heat is produced so that material plasticizes locally, forging an insoluble connection between both parts within a very short period of time. The prerequisite is that both working pieces have a near equivalent ...

Ultrasonic Welding of Polyamide and Polycarbonate Plates ...

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Ultrasonic Welding of Polyamide—Influence of Moisture on the Process Relevant Material Properties,” Weld World, 58 (6 ... Influence of Horn Misalignment on Weld Quality in Ultrasonic Welding of Carbon Fiber/Polyamide 66 Composite,” Weld. J., 97 (5), pp.

Weld Quality Prediction in Ultrasonic Welding of Carbon

...

Ultrasonic influence on welding performance factors. Resin crystalline and non-crystalline state. Release agent. Moisture

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content. ubricating oil. pigment. Plasticizer. Resin grade. filler.
Suitable materials for ultrasonic welding. Ultrasonic welding is a
fast, strong, clean and reliable plastic and metal joining process.

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