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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.

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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*



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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

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including viscoelastic heating and the difference between near-field and far-field ultrasonic welding.

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The process of ultrasonic welding of plastics is achieved by applying a vibrating metal tool (horn) at 90° to the stationary 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.

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## *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...

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The ultrasonic welding (UW) technique is an ultra-fast joining process used to join

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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.

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