

AWS G1.1M/G1.1:2006
An American National Standard



Guide to Ultrasonic Assembly of Thermoplastics



American Welding Society



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American National Standards Institute
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Guide to Ultrasonic Assembly of Thermoplastics

1st Edition

Prepared by the
American Welding Society (AWS) G1 Committee on Joining of Plastics and Composites

Under the Direction of the
AWS Technical Activities Committee

Approved by the
AWS Board of Directors

Abstract

This guide details the ultrasonic equipment and the processes used in industry for fabricating thermoplastic parts, including welding, staking, swaging, insertion, forming, degating, cutting, and trimming. Included are sections on safety, equipment setup, joint and part design, testing, and process optimization.



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