

Welding studies on polypropylene

- - Joining Plastic



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Joining Plastic

Aquatherm was founded in 1973 in Germany as a company for the development, production and installation of warm water floor heating systems. Following the wars, several modern welding techniques were developed, including manual methods like , now one of the most popular welding methods, as well as semi-automatic and automatic processes such as , , and . Your welding tool should have a built-in, precise electronic temperature control that is easy to use.

Welcome to Aquatherm Australia

Unlike metals, which have a specific , glasses and plastics have a melting range, called the .

Welding

They require a plastic that can withstand the strain of fastener insertion and subsequent high stress around the fastener. Especially useful for welding thin materials, this method is characterized by a stable arc and high quality welds, but it requires significant operator skill and can only be accomplished at relatively low speeds.

Ultrasonic Welding of Plastics

Ensure to remove all debris and dry plastic with a lint-free cloth.

Welcome to Aquatherm Australia

A reduction in fracture toughness may also be attributed to the embrittlement effect of impurities, or for body-centred cubic metals, from a reduction in temperature.

Polypropylene

Heat until you see the plastic begin to melt. The wide color range, durability, low cost, and resistance to dirt make it ideal as a protective cover for

papers and other materials.

Ultrasonic Welding of Plastics

The effects of welding on the material surrounding the weld can be detrimental—depending on the materials used and the heat input of the welding process used, the HAZ can be of varying size and strength.

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