

عنوان مقاله:

Effect of Welding Parameters on Heat Assisted Friction Stir Welded Polyethylene Sheets

محل انتشار:

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خلاصه مقاله:

The aim of this study was to investigate the weldability of polyethylene via heat assisted friction stir welding and effect of welding parameters on mechanical properties of welded plates. Investigated parameters were pin rotational speed, transverse speed of tool and shoulder temperature. Tensile and bend tests were done to evaluate mechanical behavior of material. The results show that PE plates could be welded with joint efficiency similar to base material. This can be accomplished by operating with a high shoulder temperature, low welding speed and high rotational speed

کلمات کلیدی:

Friction Stir Welding, Polyethylene, Mechanical Properties

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