



# Friction welding of dissimilar plastic/polymer materials with metal powder reinforcement for engineering applications



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## ABSTRACT

Friction welding is one of the established processes for joining of similar as well as dissimilar polymer/plastics and metals. In past 20 years numbers of application in different areas using this process have been highlighted, but very limited contributions have been reported on properties of friction welded joints of dissimilar polymer/plastic materials after reinforcement with metal powder. In the present work an attempt has been made to perform friction welding of dissimilar plastic based materials by controlling the melt flow index (MFI) after reinforcement with metal powders. The present studies of friction welding for dissimilar plastic were performed on Lather by considering three input parameters (namely: rotational speed, feed rate, and time taken to perform welding). Investigations were made to check the influence of process parameters on mechanical and metallurgical properties (like: tensile strength, Shore D hardness and porosity at joint). The process parameters were optimized using Minitab software based on Taguchi 3<sup>3</sup> orthogonal array and results are supported by photomicrographs.

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## 1. Introduction

The joining of composite materials and structures is a topic of high technological interest; since it is well known that traditional joining techniques are usually not directly exportable to composite elements (refer, e.g. to [1–4] and references therein). Attention is increasingly being given to the following research areas, both experimentally and numerically: fusion bonding [5,6]; welding-based joining techniques [7–14]; friction spot and friction lap joining [15,16]; and ultrasonic joining [17]. Friction welding is a process of joining of materials and structures below their melting points. When these materials come in contact with relative motion to each other, with the action of friction, heat is produced and deformation takes place, due to this intermolecular diffusion is occurred between their faces and thus welding is performed. Friction welding concept was originally come for similar metal joining, but it was further applied for similar thermoplastic composites [18]. Later on this concept was used for the dissimilar materials like steel-aluminum and steel-copper and aluminum-magnesium cylindrical piece joining [19,20] and for dissimilar plastic welding of ABS to

HDPE [21]. The number of studies has been reported to check the mechanical, thermal and metallurgical properties of friction welded piece [22–24]. Interface properties are examined to check the fusion, deformation mechanisms and microstructure characteristics of friction welded interface [20,25–26]. ABS and Nylon6 are commonly used thermoplastics with excellent mechanical properties and are used generally for friction welding application [21]. The joining of ABS or Nylon 6 to itself or welding of ABS to HDPE is feasible [27] but, there is a limitation of joint strength (for friction welded joints) of these thermoplastics that hinders its use in different engineering applications.

Some studies have highlighted the use of a tool in the form of a ring which is rotated in between the interface of two pipes. This is getting heated deformed by friction created due to rotation of ring, so welding of pipeline is possible [28]. Friction inertia welding concept is widely accepted in aerospace applications [29,30]. Reinforcement of polymer with nano-composite is the technique to make the feasibility of friction welding process. The studies also highlight that friction spot welding of polymethyl-methacrylate and polymethyl-methacrylate-SiO<sub>2</sub> is feasible [31]. The reinforcement of nano-composite with polymers is responsible for the improved mechanical and metallurgical properties [32–36].

The literature review reveals that joint strength properties of friction welded joints of ABS with Nylon6 are not good enough

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# Friction Welding Of Dissimilar Plastic Polymer Materials

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