

Article

# Selective Laser Sintering of Nano Al<sub>2</sub>O<sub>3</sub> Infused Polyamide

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Received: 23 June 2017; Accepted: 19 July 2017; Published: 27 July 2017

**Abstract:** Nano Al<sub>2</sub>O<sub>3</sub> polyamide composites are evaluated for processing by selective laser sintering. A thermal characterization of the polymer composite powders allowed us to establish the possible initial settings. Initial experiments are conducted to identify the most suitable combinations of process parameters. Based on the results of the initial trials, more promising ranges of different process parameters could be identified. The post sintering characterization showed evidence of sufficient inter-particle sintering and intra-layer coalescence. While the inter-particle coalescence gradually improved, the porosity levels slightly decreased with increasing laser power. The nano-filler particles tend to agglomerate around the beads along the solid tracks, possibly due to Van der Waals forces. The tensile stress results showed an almost linear increase with increasing nano-filler content.

**Keywords:** selective; laser; sintering; polyamide; nano-ceramics; coalescence

## 1. Introduction

Polymer nano-composites are made up of a matrix polymer, which is reinforced by a small quantity of nanoparticles with a high aspect ratio [1], and the particles or fibres used have a minimum of one dimension in the range of 1 to 100 nm [2]. Filler materials have been used with different polymers to improve properties such as mechanical strength, heat resistance, impact resistance, and electrical conductivity. Conventional fillers, which are in the macro or micro scale, lack strong interactions with the matrix polymer, and larger fillers are prone to imperfections [3,4]. Conventional fibre-reinforced composites with strong filler-matrix interactions show improvements in stiffness and strength while sacrificing toughness. The volume fractions of filler materials also have direct relationships to possible improvements in properties [2]. The presence of nano fillers in the matrix is more discrete in comparison, and adds to the properties of the base polymer without compromising on qualities such as flexibility. Layered silicates and carbon nanotubes are by far the most investigated nano materials [5].

The traditional methods used to process nano-composites can be divided into different sub categories. In the mechanical processing of nano materials, severe plastic deformation techniques such as forging, extrusion, drawing, and rolling are employed. The material is subjected to deformation under large strains below the recrystallization temperature [6–8]. These conventional techniques have limitations when processing nanoparticles due to load limitations, and it is difficult to achieve uniform microstructures. The formation of impurities and porosity is another problem associated with plastic deformation. Other techniques, such as ball milling, are used for processing, but lack the ability to produce bulk samples [6,7,9]. Shock wave consolidation is also used to process nanomaterials, which can densify powder materials without changing the microstructure or composition, unlike the thermo-mechanical processing methods.

# Selective Laser Sintering Of Nano Al<sub>2</sub>O<sub>3</sub> Infused Polyamide

**David Baud**



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