

Research Article

Dynamic Fracture Toughness of TaC/CNTs/SiC CMCs Prepared by Spark Plasma Sintering

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This study focuses on the fracture toughness of TaC and carbon nanotubes (CNTs) reinforced SiC ceramic matrix composites (CMCs), prepared by spark plasma sintering (SPS) technique. A high densification of 98.4% was achieved under the sintering parameter of 132°C/min, 1800°C, and 90 MPa pressure. Vickers indentation was employed to measure the indentation toughness on the polished surface of ceramic samples. SEM was applied to directly observe the crack propagation after indentation, and split Hopkinson pressure bar (SHPB) was developed to determine the dynamic fracture toughness within the ceramic samples subjected to an impact in a three-point bending configuration.

1. Introduction

As carbon nanotubes (CNTs) present excellent Young's modulus, good flexibility, low density, and exceptional electrical and thermal performance in general, they have been considered one of the most promising nanoscale reinforcements for polymers, metals, and ceramics [1–3], among which the CNTs reinforced ceramics with improved fracture toughness have attracted intense global research since they have increasingly been applied in impact related areas such as aerospace and ballistic armors [4]. Accurate understanding and determination of the dynamic fracture toughness at high strain rate of significant importance for the assurance of the integrity and safety of structural components subjected to impact loading.

Investigators attempted to extend the quasi-static ASTM standard into dynamic loading range through various high rate bending techniques. The specimens were designed as three- or four-point bending of precracked beams, while the dynamic loading was applied using a modified split Hopkinson pressure bar (SHPB), a drop weight tower, or a modified Charpy tester [5]. Geary et al. [6] studied the dynamic fracture toughness under different strain rates of

glass reinforced polymer using three-point bending specimens, and they reported that the dynamic fracture toughness is higher than the static one owing to different failure modes. Samborski and Sadowski [7] compared the static and dynamic fracture toughness values for alumina and magnesia ceramics and investigated the effect of porosity on the fracture toughness and found that the increase of initial porosity reduces the values of both static and dynamic fracture characteristics. Rubio-González et al. [8] tested the dynamic fracture toughness for two composite materials by means of instrumented Hopkinson bar with precracked specimens loaded on a three-point bending configuration. Up to now, there has not been a complete standard to characterize and measure dynamic fracture toughness of ceramic materials owing to both the difficulties in dynamic fracture theory and experimental techniques [9, 10].

The purpose of this paper is to develop a better understanding of the fracture toughness of ceramic composite in impact from quasi-static to dynamic, as well as the possibility of toughening with CNTs reinforced silicon carbide ceramics. In this study, TaC and CNTs reinforced SiC ceramic matrix composites (CMCs) were prepared by a two-stage spark plasma sintering (SPS) technique, and Vickers indentation

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