SOUND-ABSORBING PROPERTIES OF COMPOSITE MATERIALS REINFORCED WITH VARIOUS WASTES

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Abstract

Noise is a complex sound without periodic character which affects biological and psychological state of humans and other organisms in nature. This paper presents research on the sound-absorbing properties of new types of ecological composite materials reinforced with various wastes that can harm the environment. Sound absorbing capacity for new composites depends on the proportion and nature of the waste used. The absorption coefficient was determined for each sample in order to characterize the sound-absorbing capacity for each composite material obtained and the reinforcement material influences on the sound absorbing properties.

Key words: absorption coefficient, absorbing properties, composite materials, sound-absorbing capacity

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