

Mechanical properties of hydroxyapatite foams produced by gelcasting using agarose

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ABSTRACT

Over the past decades, hydroxyapatites have been widely used as implant materials in medicine. The aim of his study was a determination of mechanical properties of hydroxyapatite foams produced by gelcasting using agarose. The measurement of storage modulus, loss modulus was made by dynamic mechanical analysis (DMA). Hydroxyapatite should have mechanical properties, such as bone tissue. Measurements with use DMA show a much lower value of modulus than that provided by the literature.