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Mechanical Properties of Natural Cellular Materials

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Abstract

Natural cellular materials can be found nearly everywhere in nature: from wood to leaves and cork or looking at the human bone, these structures have been studied more intensively over the last decades. Some of them have been showing exceptional mechanical properties that can compete or even surpass their synthetic competitors. The following sections plan to give a concise overview of some of these materials and their mechanical properties.

Keywords

Cellular material

Mechanical properties

Natural materials

Recyclable materials

Sustainable material