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## Problematic of materials for personal protective equipment - ecology and 3D printing.

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The quality of personal protective equipment is constantly improving. However, its frequent replacement raises questions about the ecology of used materials. Both the production and, above all, the disposal of protectors with regard to the environment is important. Unfortunately, this is a problem that is not so obvious to most end customers. This work focuses on the recyclable materials which can be used as energy-absorbers in personal protective equipment. A series of impact tests were carried out to demonstrate the energy-absorbing ability of these materials. Furthermore, a bicycle helmet was designed using outstanding material.

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