

**PUNCTURE AND TEAR OF WOVEN FABRICS**

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ABSTRACT

The quite often contact of textile goods with sharp objects, results in the puncture and in many cases the tear of the textiles. Thus, the determination of the tearing strength of textile articles occupies a very distinctive position among the various textile quality control tests. The existing device-method presupposes an initial cut in the testing area of the specimen. The lack of a device simulating the accidental combined puncture and tear of a fabric was fulfilled with the development of the apparatus COMPUTE. The impact angle and the mass of the falling puncture tool that causes the tear of the fabrics are the main variables that this apparatus possesses. In this project, the effect of these two variables on the tear propagation length of woven fabrics is investigated.

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