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Development of a textile with Silica coating for environmental friendly control of insects in agricultural production

Deliverable [10]: *[Data of the fiber's characterization]*

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Project Details:

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Project Acronym: **AgriTexSil**

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Deliverable Details

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Deliverable Title: [Data of the fiber`s characterization]

Lead beneficiary: [ITA]

Involved Partners: [P&S]

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D [10]: [Data of the fiber`s characterization]

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1. Summary

The aim of this deliverable is to have documented the analysis results of the provided fiber. Both circular and non-circular fibers were investigated for optical end mechanical characteristics. Fibers were characterized in accordance to DIN.

2. Monofilament characteristics

The monofilaments were tested on Statimat 4 U according to standard DIN EN ISO 2062 for their mechanical properties. The tested length is 250 mm. The pretension F_v is 0,5 cN/tex and testing speed is 250 mm/min. The force shutdown threshold is 90 %. Tenacity results are shown in the following tables. Each measurement was performed 30 times. All test results are shown in figure 1-3.

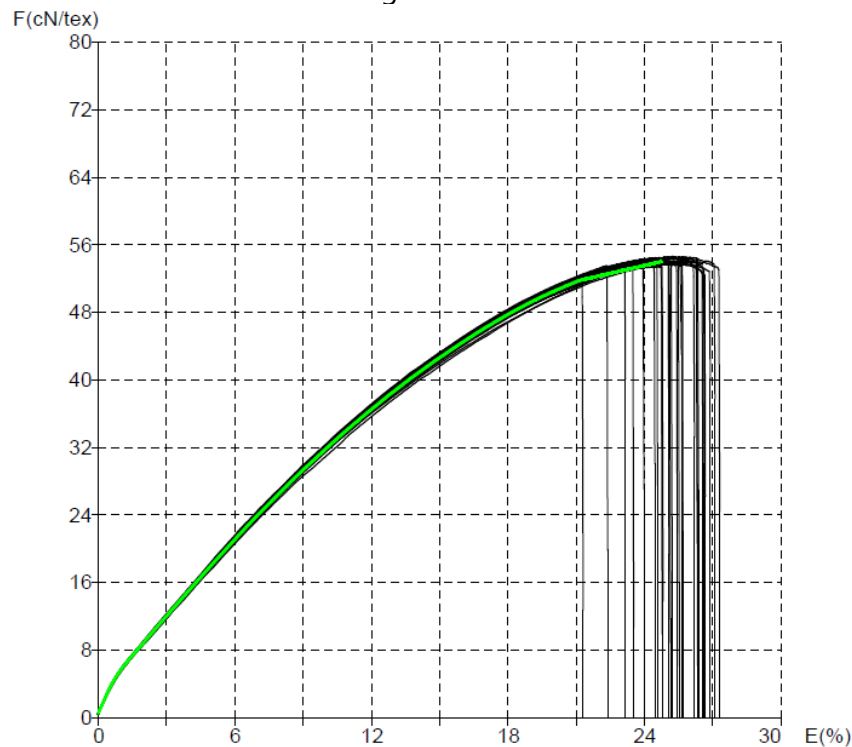


Figure 1: Test results of circular shaped fiber

D [10]: [Data of the fiber's characterization]



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The deliverable is available upon request

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