

THERMAL AND ACOUSTIC PROPERTIES OF CELLULOSE FIBROUS MATERIALS

SANJA PAVLOVIC¹ and GORAN POPARIĆ² 

¹ *College of Applied Studies Aviation Academy, Bulevar vojvode Bojovica 2, 11158 Belgrade*

E-mail pavlovic.s@vakademija.edu.rs

² *Faculty of Physics, University of Belgrade, Studentski Trg 12, P.O. Box 44, 11000 Belgrade, Serbia*

E-mail goran_poparic@ff.bg.ac.rs

Abstract. In the present research, the thermal and acoustic characteristics of cellulose fibrous materials with different structural and physical properties, made of cotton, hemp, viscose and their mixture were studied and also examined their acoustic characteristics after plasma treatment. The obtained experimental results of sound absorption coefficient (SAC) for cellulose fibrous materials before and after argon plasma treatment and the results of the additional investigation and measurements of the treated cellulose material surface are presented.

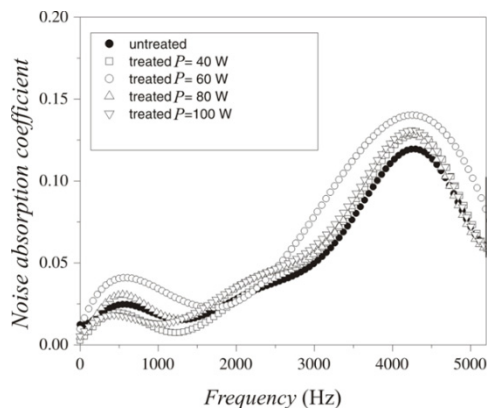


Figure 1: Sound absorption coefficient for untreated and plasma treated sample (Sanja S. Pavlovic at al.: 2019)

References

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