## **ABSTRACT**

M. Sc. Thesis

## DETERMINATION OF SOME PHYSICO-MECHANICAL PROPERTIES OF DRIED FIGS

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The physico-mechanical properties of agricultural metarials and products neccessary for processing, transporting and storing as well as their postharvest process and the design of equipment for harvesting and plantation. In the aim of this study whose aim is to determine the physico-mechanical properties of dried figs; the physico-mechanical properties of sarı lop and sarı zeybek varities were the determined the length, widght, static coefficient of friction, dinamic coefficient of friction, angle of repose, bulk density, true density, porosity, puncturing force, cutting force, moisture content were measured according to naturel figs condition and the length, widght, static coefficient of friction, dinamic coefficient of according to polar and equatarial processed figs compressed. The significance of differences between physico-mechanical properties was determined as a result of variance analysis for four distinct quality classes. Duncan test determined which quality classes caused the defferences. As a result of the study; physico-mechanical properties namely, naturel length, equatarial compressed length, naturel widght, equatarial compressed widght, naturel static coefficient of friction on the surface of rubber, plywood, stainless steel, equatarial compressed static coefficient of friction on the surface of rubber, equatarial compressed static coefficient of friction on the surface of stainless steel, bulk density, true density, porosity, moisture content, value of gravity of sarı lop; naturel length, polar compressed length, equatarial compressed length, polar compressed widght, equatarial compressed widght, naturel static coefficient of friction on the surface of rubber, polar compressed static coefficient of friction on the surface of plywood, naturel dinamic coefficient of friction on the surface of rubber, naturel dinamic coefficient of friction on the surface of plywood and stainless steel, equatarial compressed dinamic coefficient of friction on the surface of rubber, plywood, stainless steel, bulk density, true density, porosity, puncturing force, cutting force, moisture content, value of gravity of sarı zeybek were determined as significantion the of p< 0,001.

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## **Keywords:**

Dried fig, mechanic properties, physical properties, sarı lop, sarı zeybek.