

**ASSESSING THE IMPACT OF ADDITION OF MICA
FILLER TO THE NEOPRENE GLOVE
MANUFACTURING PROCESS**

A dissertation submitted to the
Faculty of Animal Science and Export Agriculture

Uva Wellassa University

In partial fulfillment of the requirement for the award of the
Bachelor of Science in Palm and Latex Technology and value addition

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2013

ABSTRACT

The synthetic rubber based supported glove industry plays the major role in rubber industry. In terms of economic advantage, the chemical handling gloves are more dominant compared to others. The chemical resistant Neoprene gloves are high cost products. In the current study, I examined the Mica is a cost reduction filler as well as reinforcement of the product. The incorporation of 5phr of filler was significantly improved the properties of glove.

The glove weight is a critical parameter in terms of quality of the glove. There are number of factors are affecting to the variation of glove weight. The viscosity of the compounded latex is most crucial in determining the glove weight. The P value = 0.00 at 95% and 99% confidence interval. The weight is increased at the high viscosity levels and *visе versa*.

Key words: Neoprene latex, Mica filler, Viscosity, Cost reduction, Glove Weight