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Sugarcane leaf lamp

The main propose of the present study was to study the forming of sugarcane tissue in order to produce a sugarcane leaf lamp. To obtain a soft tissue of the leaf, the leaf residues were mechanical and chemical processed similar to that of making a sheet of mulberry paper. After that, the tissue was formed as a cone shape by a forming machine which was developed specially for this work. The temperature and time conditions of the forming process were studied. It was found that the moisture content in the cone was affected by the temperature and time variation. In addition, the thickness of the tissue affected significantly to the lamp brightness. This research provides economic value added to the sugarcane residue and provide an option for sugarcane farmer to sell their leaf residue instead of burning it which led in PM2.5 air pollution.

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