

Recycling Of Plastic Bottles Into A Polymer Jeans

The National Institute of Engineering, Mysore/ 1ST SEM/ E&E - A Section

PROBLEM STATEMENT

Plastic waste has become a major problem in waste management. How these plastic waste could be recycled for fancy/ durable re-usage.

TEAM MEMBERS

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INTRODUCTION

Once all the plastic is melted and filtered, it goes through the spinning process. The melted plastic is turned into polyester yarns and spun together with the yarn of choice to make the plastic fabric wearable. The yarn is collected and passed on to the weaving department. It is responsible for reduction in toxins released into the air while burning waste plastic. Besides, the waste bottles dumped into the landfills are also reduced. Further, the used plastic bottles which are turned into fabrics are recyclable and they generate less pollution in the environment.

IDEA GENERATION

In order to remove the label in the bottle, first we need to immerse the bottle in the solution which helps in loosening the glue of the bottle, then with the help of the revolving cutter, the label will be cut and removed from the bottle.

PROTOTYPE IMAGES

