

ABSTRACT

EXPLORATION OF HDPE PLASTIC BAGS USING A COMBINATION OF STRUCTURAL TEXTILE DESIGN FOR FASHION PRODUCTS

By

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The potential of HDPE plastic bags as non-textile materials has been found in previous studies as alternative textiles because of their strong, lightweight, solid-colored, and elastic advantages. Previous studies have successfully processed HDPE plastic bag materials using structural textile design, such as macrame and weaving, to be made into fashion accessories. The techniques and application of products from previous studies can be developed using a combination of structural textile design for more explorative results. The results of the material processing are applied to more varied fashion products in a larger area, by applying balanced aesthetic and functional values. The purpose of this study is to provide new alternatives and variations in processing HDPE plastic bag materials using a combination of structural textile design, to be made into more explorative and varied fashion products. This study uses a qualitative method with data collection methods, in the form of literature studies, material observation and brand analysis, and exploration of HDPE plastic bag materials. The selected material color is a combination of silver and black to highlight the silver color and give a modern look. The exploration process succeeded in finding the most optimal technique, namely the macrame technique with a combination of heat felting for sheets with large areas, and the crochet technique for decorative shapes. The characteristics of macrame sheets are flexible, thin, and rough so that they cannot come into direct contact with the skin. As an effort to create comfort and quality, a combination of non-textile materials with strong, dense, and thick textile materials is carried out, to avoid textile fibers getting caught. The textile materials that are suitable for application are denim and linen. The characteristics of the crochet decorative form are thick, strong, and can be varied in shape according to the concept by considering the elements and principles design. The design of the products is also carried out by considering material characteristics, exploration results, environmental issues, and trend analysis. The results of this study are Steampunk, Post-Apocalypse, and Futuristic womenswear products, with plastic products that have removable features for easy maintenance.

Keywords: Fashion Products, HDPE Plastic Bag, Structural Textile Design.