

Study on the effect of acrylic/nettle union fabric

■ Neha Garg, Harinder Kaur Saggu and Kanwaljit Kaur Brar

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■ **ABSTRACT** : A study was performed on the acrylic/nettle union fabric to show the effect of physical and mechanical properties of union fabric. Here, the acrylic yarn was used in the warp direction and nettle yarn was used in the weft direction. Fabric weight of (AN₅) was 393.3 g/m², respectively. Fabric thickness of AN₅ fabric was 1.91 mm which was higher than the other union fabrics. It was concluded that fabrics with higher fabric weight and thickness were suitable for making home textile products viz., rug, table runner and cushion cover because these would retain shape well, and resist slippage and folds in use. Dimensional stability of AN₆, AN₁ fabric was more due to compact yarn and fabric structure in which less space was left for shrinkage. Less shrinkage was considered good for fitted textile products. AN₄ and AN₂ fabrics were found to be more durable as the breaking strength compared to other union fabric was considered good for textile products. Fabrics with codes AN₂ exhibited more abrasion resistance and were considered good for textile products for personal use and found to be durable.

■ **KEY WORDS**: Nettle, Acrylic, Union fabric, Properties

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See end of the paper for authors' affiliations →

Neha Garg

Department of Apparel and
Textile Science, College of Home
Science, Punjab Agricultural
University, Ludhiana (Punjab)
India