

DEVELOPMENT OF NON-WOVEN FABRIC USING ARECA

HUSK FOR TEXTILE APPLICATION

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ABSTRACT

The research and development results dealing with the idea of creating Areca Catechu L. needle punched non-woven fabric. Areca Catechu L. fiber is the most comfortable natural fiber and also has good breathing properties besides being skin friendly and easy to care. Needle punched Areca Catechu L. Non – woven blended fabrics made out of using one of the Recycled Polyester and Regenerated Viscose Rayon in different proposition of 50:50, 60:40 and 70:30 wt% were manufactured using needle punching techniques respectively. Morphological study (FESEM analysis, EDX analysis), physical, mechanical and colourfastness properties of the needle punched non-woven fabrics were studied

KEYWORDS: *Areca catechu L.*, Recycled Polyester, Regenerated Viscose Rayon, Needle Punching, Non-Woven and Dyeing