



Improving the Polyester Ribbons Performance by Using Multifiber Weft Yarns

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Abstract: Polyester ribbons subjected to different stresses and it should have good performance for different applications. This research aimed to improve the performance of such ribbons by introducing the multifiber weft yarns instead of single continuous weft yarn in the weaving structure of the ribbons under this study. The effect of the type of weft yarn was examined in terms of tensile strength, elongation percent, whiteness, brightness, water absorption, thickness, and weight and abrasion resistance. The study found that ribbons made of weft multifibers yarns have good performance when compared with the weft single fiber yarn especially for resistance to abrasion.

Keywords: *Polyester ribbon, Single fiber yarns, Multifiber yarns, Weaving structure, Water absorption*

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