

SURFACE MICROSTRUCTURING OF PES FABRICS BY UV LASER IRRADIATION

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Abstract: *In this study, laser was used to treat PES fabrics. The effects of laser treatment on the surface morphology of the fibres were characterized using scanning electron microscopy (SEM) and atomic force microscopy (AFM). The microscopic evaluation revealed the changes in the surface morphology of the fibres caused by laser treatment. By surface microstructuring, the treatment achieved can be considered an intelligent solution for the improvement of surface properties of textile materials.*

Key words: *microstructuring, UV excimer laser irradiation, PES fabrics, morphology*



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