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COVER ILLUSTRATION Producing and characterizing of nanofibrous yarns with twisted and continuous structures is still challenging because this new generation of yarns have found a high potential in fabrication of complicated structures in various fields such as suture yarns, high performance and functional fabrics, artificial blood vessels and tissue scaffolds. Applications of hybrid nanofibrous yarns in various areas require a vast study on its tensile properties. Twist rate and take up speed are two variables processing parameters which play an important role in the improving the tensile properties. In this study the PVA was selected as main component due to drug loading ability, biodegradable and biocompatible properties which has the potential to be used in medical applications such as sutures. Also, the PA6 component was used to increase the strength of the PVA nanofiber yarn. The influence of take up speed and twist rate on the diameter of yarns, tensile properties and arrangement of nanofibers in the yarn structure was studied.

For more information on this topic please read the article on "Analysis of twist level and take-up speed impact on the tensile properties of PVA/PA6 hybrid nanofiber yarns" by Aref Fakhrali, Seyed Vahid Ebadi, Ali Akbar Gharehaghaji, Masoud Latifi and Abdolrasool Moghasssem on pages 125–135 of this issue. Copyright holders of the image are the authors of this article.



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