

عنوان مقاله:

Effect of Double-Nozzle Jet on Mechanical Properties of Interlaced Self-Twist Yarn

محل انتشار:

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تعداد صفحات اصل مقاله: 5

نویسندگان:

M. S. Joharei - Assistant Professor, Department of textile Engineering Amirkabir University of Technology, Iranian Academic Center for Culture, Education & Research of Amirkabir University Tehran, Iran

S.M. Etrati - Assistant Professor, Department of textile Engineering Amirkabir University of Technology, Iranian Academic Center for Culture, Education & Research of Amirkabir University Tehran, Iran

M. Varsei - Instructor, Department of textile Engineering Amirkabir University of Technology, Iranian Academic Center for Culture, Education & Research of Amirkabir University Tehran, Iran

H. Dabiryan - Instructor, Department of textile Engineering Amirkabir University of Technology, Iranian Academic Center for Culture, Education & Research of Amirkabir University Tehran, Iran

خلاصه مقاله:

Earlier investigations have demonstrated that air interlacing improves the mechanical properties of Self-Twist (ST) yarns. In following of previous efforts, this paper discusses improving of mechanical properties of ST yarn by using double-nozzle jet. In the present work, at first, a Murata jet was attached to Repco ST yarn machine which the air pressure and distance of double-nozzle jet from twisting rollers were varied. For the experimental work, the distance of jet from twisting rollers was adjustable from 255 mm to 505 mm. Also, a wide range of the air pressure has been supplied. The results showed that elongation and tenacity of yarns increase relatively by increasing of mentioned distance up to 355 mm. Also, the results showed an improvement of tensile properties of yarn when the air pressure of first and second nozzle are 1 and 4 bars, respectively.

کلمات کلیدی:

Self-Twist Yarn, Mechanical Properties, Double-Nozzle Jet, Zero-Twist Parts, Air Pressure

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