

**EFFECT OF FIXING STAGE FROM TEXTURING SYNTHETIC FILAMENTS YARN
PROCESS BY FALSE TWIST TECHNOLOGY ON THE POLYESTER YARN SKEIN
SHRINKAGE**

IBERÊ CRUZ FREITAS & FERNANDO AUIL

Escola de Artes Ciências e Humanidades da Universidade de São Paulo (USP) – Textile and Fashion
São Paulo, Brazil

ABSTRACT

Among synthetic fibers, the polyester is the most used one. The texturing provides filament yarn characteristics such as appearance, touch and mechanical properties similar to those of spun yarns, allying the positive characteristics of spun yarns and filament yarns. The texturing process for false twist fixed (FTF) comprises two thermal zones (heaters), whereas the study evaluates influence of the second zone, also known as fixing texture zone, analyzing the influence of fixing step by the interaction of the variables of yarn overfeeds into the second heater and second heater temperature in the skein shrinkage of draw textured polyester yarn. The results showed that the variables have strong influence on residual shrinkage.

KEYWORDS: Polyester, Texturing, Fixing, False-Twist, Temperature, Overfeed, Shrinkage