Thermal comfort properties of summer and winter outerwear knitted fabrics

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Abstract:
Comfort is considered one of the most important properties required by the consumers when purchasing clothes. Thermal comfort can be divided into physiological and psychological ones. This study aimed to differentiate between different knitted structures that randomly selected from the Egyptian market in order to be used as summer and winter outerwear in terms of their thermal comfort. Thermal comfort was characterized in this study by air permeability, thermal conductivity, thermal resistance and water vapor transmission in the fabric. One-Way analysis was used to differentiate between knitted fabric samples. The findings of this study revealed that knitted fabric weight is the most influential factor on thermal comfort properties. With regard to summer and winter outerwear, there were significant differences among knitted fabric samples in terms of their thermal comfort properties.

Keywords:
Knitted Fabric,
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