Hand feel measurement of some inner wears with quick dry function

Hin-heng, Lois Yim, Chi-wai Kan
School of Fashion and Textiles, The Hong Kong Polytechnic University, Hung Hom, Kowloon, Hong Kong
Corresponding author: tccwk@polyu.edu.hk

Abstract

Inner wear with quick dry function is become an important products in the market recently. The quick dry function would provide comfort feeling to the wearer. In fact, most inner wear with quick dry function may have close contact with wearer's skin. Thus, the hand feel are also an important factor for such products. Three commercially available products serving three product area: Brand A: online brand; Brand B: general market and Brand C: youth market were obtained from the market. Their hand feel properties were examined by relative hand value to an international standard AATCC-202. Experimental results revealed that Brand B was the optimal product in terms of resilience and smoothness, whereas the softness property for Brand C performed better.

Keywords: inner wear, fabric, hand feel, relative hand value, wearer

Content:

The typical climate in Hong Kong is humid with relatively high temperature. The humid climate would cause fabric becomes difficult to dry. The accumulation of sweat in fabric may have risk of infection and hyperthermia. Therefore, quick dry garment is available in the market which may regulate the moisture transfer from the skin to maintain healthy body temperature.

There are quite a lot of quick dry inner wears available on the market but their hand feel properties do not reported much. Therefore, this study aims to investigate the hand feel properties of commercially available women's quick dry inner wear in which three brands are selected based on their market position.

Hand value

Brand	Relative hand value		
	Resilience	Softness	Smoothness
A	76.01	92.41	77.06
B	65.83	91.83	74.89
C	80.17	91.57	78.17