

" دراسة مقارنة بين نسب خلط الإسباندكس على الخامات والتراكيب البنائية المختلفة
لأقمشة تريكو اللحمة المنتجة للملابس الخارجية "

"A comparative study between Lycra Blending ratios on different fibers
and structures of Weft Knitted Fabrics produced for Outer Clothes"

أ.د/ فيروز أبو الفتوح الجمل

أستاذ متفرغ بقسم الغزل والنسيج والتريكو بكلية الفنون التطبيقية - جامعة دمياط

أ.م.د/ حسام الدين السيد

أستاذ مساعد بقسم الغزل والنسيج والتريكو بكلية الفنون التطبيقية - جامعة دمياط

م/ إيمان محمود الدعروني

باحثة بمرحلة الماجستير بقسم الغزل والنسيج والتريكو بكلية الفنون التطبيقية - جامعة دمياط

Abstract:

In the last years of Twentieth century there have been real changes and rapid developments in all areas of life and modern techniques have emerged in textile industries ranked first position in strategic fields .

So the research aims to Acomparative study between spandex Blending ratios on different Fibers and Structures of Weft Knitted Fabrics produced for Outer Clothes

Because of the importance of Spandex where it helped change the course of whole fashion ،By providing the texture , shape , and fit that the designers dreamed of

Spandex yarns improves the properties of fabrics , they contain where it earns high flexibility beside that Spandex provides clothes unique value it started by improving the free movement within the clothing and fit with body dimension .

In the research Spandex yarns were used (45/30/15) with structural structures of Singel Jersey and Rib.

Fiber : Viscose, Cotton, and Polyester.

The search reached:

- ❖ Changing the blending ratio of Spandex with (Cotton / Polyester/ Viscose) resulted in changes in the properties of fabrics.
- ❖ Using different structural structure led to get Weft Knitted Fabrics with different properties
- ❖ The use of fiber such as (Cotton / Polyester / Viscose) contributed to the provision of fabrics with different properties .
- ❖ Rib fabrics are more bursting resistance than the single Jersey.
- ❖ Rib fabric are less air permeability than Single Jersey .
- ❖ There is a direct correlation between the weight of a square meter and bursting resistance.
- ❖ There is an inverse relation between square meter and air permeability.