

ANALYSIS OF QUALITY PARAMETERS OF ADRAS TISSUE

Rajapova U.B.

PhD Students

G.A.Isakova

(M8-23),

X.Sh.Farxiddinova

A.O.Erkinov

(8-22)

Tashkent Institute of Textile and Light Industry

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Maqolada milliy abrli gazlamalardan Adras gazlamalarning fizik-mexanik ko'rsatkichlari tadqiq qilingan.

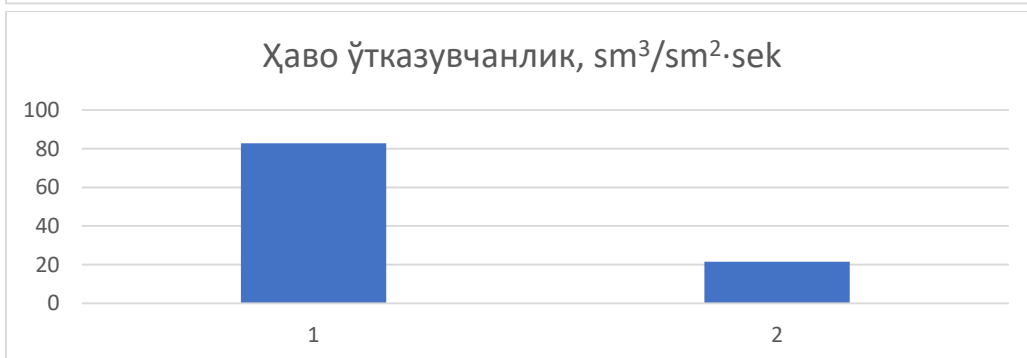
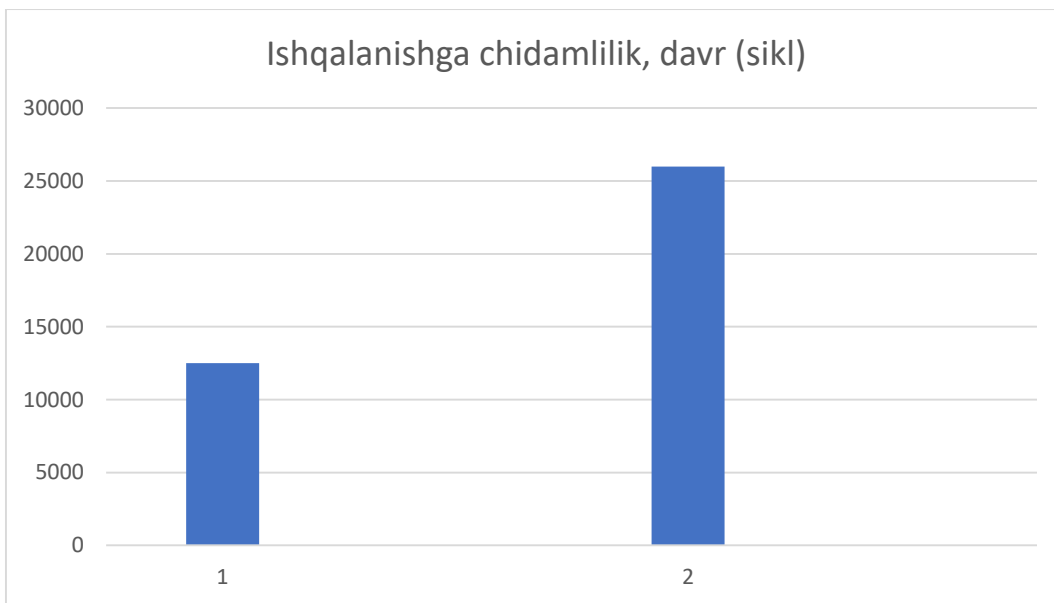
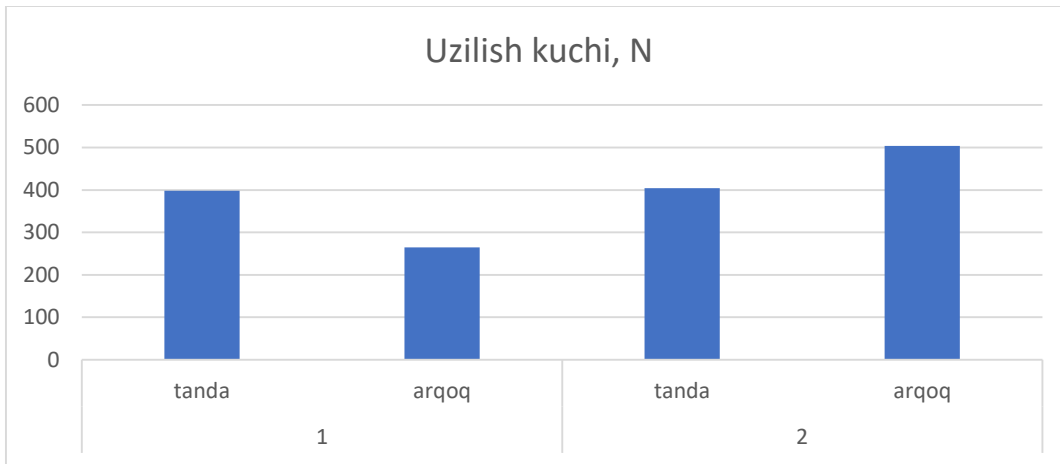
В статье изучены физико-механические показатели национальной ткани Адрас.

In the article studies the physical and mechanical characteristics of the national fabric Adras.

Interest in our elegant and classic national fabrics is growing every day in foreign countries. In addition, the scope of use of national fabrics is increasing further [1]. Ikat fabrics are not only used as dress fabrics, but also in the beautiful decorations of hotels and restaurants, on the covers of side notebooks, it is widely used in various types of women's handbags and even shoes, their hatred is adding more hatred. In particular, Adras fabrics, which began to be produced after the independence of our Republic, are today one of the most popular among woven fabrics. Increasing the processing of local textile fibers, our main asset, it is important to improve the methods of giving them artistic decoration and to find ways to create new assortments of fabrics by mixing chemical fibers. There are many types of warp and weft yarns used in the production of fabrics, the scope of their use is primarily, intended use of the fabric produced, properties, aesthetic, technological and consumer requirements for the fabric, the method of decoration, etc [2]. The type and composition of warp and weft yarns not only determine the physical and mechanical properties of the fabrics made from them, it is also one of the main factors determining the appearance of the fabric. In order to further improve the properties of Adras fabrics, several research studies have been conducted on the use of new types of yarns in it. For scientific research, a new sample fabric was obtained by adding polyester yarn to the warp yarn to obtain a new assortment, without changing any parameters on the machine used to produce 100% cotton Adras fabrics at the "Yodgorlik" National Textile Manufacturing Enterprise. For the study, the 100% cotton Adras fabric (warp and weft yarn are cotton) produced by the enterprise itself was selected for option 1. As a second option, samples were taken using polyester warp yarns on the loom. The results are presented in the table below and histograms were constructed based on them.

No	Sample	Number of threads, per 10 sm	Breaking strength, N	Abrasion resistance, period	Air permeability, $\text{sm}^3/\text{sm}^2 \cdot \text{sek}$	Surface density, g/m^2
	Warp (cotton)	260x2	398	12500	82,7	169,0
	Weft (cotton)	160	265			

Warp (cotton)	260x2	404	26000	21,5	1	170,
Weft (poliester)	160	504				



We can conclude from the research results that, when polyester yarns were used in the backing of Adras fabric, its air permeability was reduced, but its strength and abrasion resistance have been doubled compared to the rope.





Today, the decoration of hotels and restaurants, special cushions are used for sofas (seats). In addition, Adras fabrics are used for notebooks and book covers. For these purposes, it is recommended to use Adras fabrics of the 2nd option.

References:

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2. U.B.Rajapova "An analysis of structure of different filling parameters Adras fabrics", International Journal of Advanced Research in Science, Engineering and Technology (Ijarset) Vol. 6, Issue 1, January 2019.