Effect of Some Construction Factors on The Functional and Aesthetic Properties for Office Curtains Fabrics

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Abstract:
Curtain fabrics are generally considered as an essential element in the completion of the interior design, which makes the need for it continues. Office curtains play an important role in administrative buildings, as it adds an aesthetical role in addition to its functional role. The research is based on studying the effect of some construction factors on the functional and aesthetical properties of office curtains fabrics, and the research problem is on the lack of methodology for designing and producing office curtains used in administrative buildings in addition to the lack of knowledge of the designers to the properties and nature of chenille yarns and typical use of chenille yarns with restricted and reiterated applied methods. The importance of the research lies in the necessity of giving attention to office curtains and produce new and innovative quality with new aesthetic and weave values of ornamental yarns (Chenille) for use in administrative buildings. The research aims to Good recruitment of Chenille yarns to achieve the aesthetic and functional values of the product and production of new office curtain fabrics from chenille yarns that compete with international products. Typical use of chenille yarns were performed through fancy yarn, using polyester, acrylic and viscose blended in different ratios. Tensile strength, elongation, air permeability, thickness and weight of fabrics and abrasion resistance were carried out on the samples under study according to the standard conditions required to determine the properties of the product and its suitability for using.

The research has reached many results, the most important where sample No. (2) was considered the best sample as it gave the highest value for shrinkage ratio, thickness, weight, tensile strength, elongation, and lowest air permeability. The polyester material has recorded the highest values of tensile strength and air permeability compared to cotton and whereas viscose material has given the lowest of results of tensile strength compared to the other materials, and the acrylic material gave good values for all properties, Obtaining a clear prominence and decline in the curtains produced using the Chenille yarns,

The production of new quality office curtains using chenille yarns helps to beautify and peculiarity administrative building and the increasing the percentage of fancy yarns, the abrasion resistance, weight, thickness, tensile strength and elongation of the samples become higher.

Keywords:
administrative buildings - aesthetic and functional values - curtain fabrics - chenille - fancy yarns

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