

Main Features of Braid Fabric | Manufacturing Process of Braid Fabric | End Uses of Braid Fabric

Main Features of Braid Fabrics:

Braiding is a simple form of narrow fabric construction. A braid is a rope like thing, which is made by interweaving three or more strands, strips, or lengths in a diagonally overlapping pattern. They are used for various Industrial applications. They have good elongation characteristics and are very pliable, curving around edges nicely.



Braid fabric

The main characteristics of braid is-----

1. Yarn are interlaced both diagonally and lengthwise.
2. Braid is stretchy and easily shaped.
3. Flat or three-dimensional braid is used for trim and industrial products.

Braiding can be classified as two and three-dimensional braiding, two-dimensional braid structure can be circular/round/tubular or flat braid .Three-dimensional braiding is relatively new and was developed mainly for composite structures. So, braids are divided into two types ,considered as two dimensional.-

1. Circular/round braids, tubular in form , which may be hollow or have a center core of some material.
2. Flat braids, in the form of strips or narrow flat tapes.

Materials Used:

Braiding are produced from any of the textile fibers (cotton, jute. nylon, **glass fiber**, rubberetc), as well as from metal threads, tinsel, straw, wire or leather.

Manufacturing Principle:

The traditional circular braiding machine contains a series of bobbins of yarn mounted on a moving track at the bottom of the machine .The braid is produced as the bobbins move in and out around the base of the machine ,much as Maypole dancer do. Interweaving yarns by braiding produces a flexible fabric; the fabric can be stretched in one direction, but it contracts in the other.

End Uses:

Braided fabrics braiding is more significant for Industrial fabrics than consumer textiles. Braiding is one of the major fabrication methods for composite reinforcement structures , with increasing application of electrical wires and cables, harnesses , hoses, Industrial belts and surgical sutures. This principle of fabric construction is used for making shaped articles , such as straw hats and small rugs ;narrow fabrics , such as ribbons and braids for millinery and accessory dress materials; cords and tapes, such as fish lines, show laces, wicks, parachute cords and structural components for other industrial products.

Conclusion:

Thus braiding fabric forming mechanisms of braiding machine, it also form by crochet **knitting machine** ,and needle looms . We hopes in future , we can invented many new and modern braiding process and also formed braid fabric three-dimensional braid structure process.