

## Shiva fiber manufacturer of cotton type, solid, hollow conjugate and low melt bicomponent fiber

Shiva industrial group with focusing on producing polyester fibers was established on 2012 and started to manufacture different type of polyester fibers. Professional managers and efficient labor force lead to continues promotion in way of company's target as well as helping Iranian textile industries Using the most modern methods, technologies and equipment give raise to manufacturing high quality products in accordance with international standards.

Production Textile Fibers are hair - like materials from which yarn and fabric are made, Fibers are of two types including natural and man - made fibers. Natural fibers consist of animal ( e.g. wool and silk ), plant ( e.g. Cotton and Jute) and mineral ( e.g. Asbestos ). All mentioned types are being used in different textile industries such as apparel and fashion fabrics, fire resistant textiles and hand - made carpet, to name but a few. Population growth, changing consumption pattern in society, technology developments, and petroleum - based products advances lead to increasing the application of man - made fibers in textile industries, Polyester fiber is one of the commonest synthesis fibers which are, fortunately, produced in IRAN, Cotton type, solid, hollow and lowmelt bico are different kinds of polyester fibers.

### Hollow Conjugate Fiber

All mentioned polyester fibers are solid with high weight and density. Hollow Fibers are introduced by decreasing in weight and density and conversely increasing in fiber mass. They can be used in different applications such as fillers ( e.g. quilt, duvet, pillow, and furniture ), heat or cold resistant apparel, and thermophilic nonwoven filters. Through using sophisticated equipment and system, Hollow Fibers have a cylinder or tube - like shape and hollow cross section resulting in significant increasing in fiber density and, consequently, making it possible to produce low weight and bulk fibers with insulation against heat

### Cotton Type Fiber

Cotton Type Polyester Fiber is one the polyester categories that its properties such as denier, color, cut length and crimp lead to being used in textile looms and spring lines working for cotton fibers, Cotton Type Polyester Fiber characteristics make it possible to produce polyester / cotton or %100 polyester yarn in cotton spinning system. Primary materials for manufacturing of Cotton Type Polyester Fibers have to be high quality petrochemical products, Denier of Cotton Type Polyester Fibers is approximately 1/4 which needs modern equipments and facilities in order to achieve.

### Solid Fiber

Man - made Polyester Fibers have different shapes and cross section. Solid circular, triangular and star - like cross - section are common shapes of polyester, however, Solid circular is specially called " Solid " among producers and consumers, Solid Polyester Fibers have different denier from 3 to 15 which are used in diverse textile industries such as carpet, nonwoven and filter products. Solid Polyester Fibers are usually produced via melt spinning syste, then, drawn in drawing section and, finally, cut in different length for appropriate end uses.

### Micro Fiber

Mico Polyester Fibers is one the polyester categories that its properties such as denier, color, cut length and crimp lead to being used in textile looms and spring lines working for Micro fibers. Primary materials for manufacturing of Micro Polyester Fibers have to be high quality petrochemical products, Denier of Micro Polyester Fibers is approximately 1/4 which needs modern equipment and facilities in order to achieve.

## Basic Information about Low Melt Staple Fiber

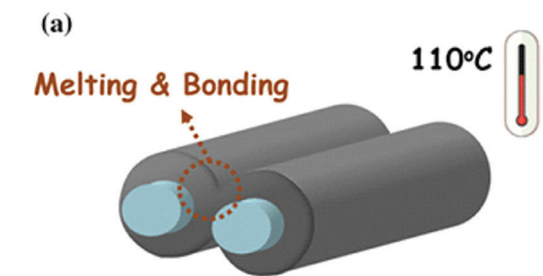
Low melt fibers utilize sheath-core fibers that melt at high temperatures and bond with other fibers to provide excellent matrix stability and handling characteristics. Low melt fibers also enhance cushioning product quality and are more compatible with the environment.

Specifications: 2D,4D,6D,15D\*38,51,64,76,89mm



Characteristics: The fiber is produced by using polyester and modified polyester to spin simultaneously. The melting point is below 130°C. It can mix with normal fiber to form the nonwoven, then heat to bond them together and become an elastomer.

Use: Mattress of bed, seat cushions.



Low Melting Point Polymer (LMPET)

Low melting Fiber can be melted at a lower temperature (200 - 100°C) (making it possible to be bonded with other fibers without any harmful adhesives, compared with normal polyester fiber is melted at a higher temperature of more than 280°C. This property contributes to environmental conservation by generating less carbon dioxide and heat. Its applications vary from automotive car interiors (door trims, ceiling materials, headliners, etc.), to furniture, construction, and industrial use.

