

# FIBER AND FIBER CONSUMPTION IN NONWOVENS

## I. Introduction

Fibers are the basic element of Nonwovens. Manufacturers of Nonwovens products can make use of almost any kind of fibers. These include traditional textile fibers, as well as recently developed hi-tech fibers. The selection of raw fibers, to considerable degree, determines the properties of the final nonwoven products. The selection of fibers also depend on customer requirement, cost, process ability, changes of properties because of web formation and consolidation. The fibers can be in the form of filament, staple fiber or even yarn. The following table shows the significant fibers used in the Nonwovens industry all over the world.

Table 1 - Fibers used in Nonwoven industry

TRADITIONAL TEXTILE FIBERS	HI-TECH FIBERS
PET	Aramid (Kevlar/Kevlar)
Polyolefin (PP/PE)	Conductive Nylon
Nylon	Bi-component (side-by-side, sheath-core, segmented pile and bra-braid)
Cotton	Melamine (Heat & flame resistant)
Rayon	Superabsorbent
Wool	Hollow fibers
Lycocell	Spandex fibers (polyether)
Acetate/nylon	Fusible co-PET fiber
	PA-66 support/matrix fiber
	Glass micro-fiber
	Chlorofiber
	Antibacterial fiber
	Stainless steel
	Rubber thread
	PTEE
	Nanofiber

Although there are several natural fibers available for nonwovens, wood pulp - which is far shorter in length than the conventional textile fibers - is the only natural fiber used in very large amounts because of its high water absorbency, bulk and low cost. Cotton has excellent inherent properties for nonwovens fabrication. Viscose rayon has been widely used in the nonwovens industry in the area of disposables and sanitary products. Rayon fibers can be easily made into webs and readily bonded into nonwovens fabrics. All these cellulose such as cotton, rayon and acetate are absorbent, act as carriers for microbial agents, and give strength combined with biodegradability [1]. Among the synthetic fiber polypropylene (PP) is widely used. PP is inexpensive and has very good rheological characteristics to form fine fibers. PP fibers are hydrophobic, voluminous, and thermoplastic in nature. Polyethylene terephthalate (PET) is used where strength and mechanical properties are of prime importance. Nylon fibers are used for their excellent recovery (resiliency) properties. Bicomponent fibers with different polymers in the core and sheath are widely used in thermally bonded nonwovens [2]. Recent developments in bi-

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*1980 Nonwoven Fibers Seminar* Technical Association of the Pulp and Paper Industry, 1980      *Abstract Bulletin of the Institute of Paper Chemistry*, 1982-06      **TAPPI 1980 Nonwoven Fibers Seminar**, 1980      **TAPPI Nonwoven Fibers Seminar 1980** Technical Association of the Pulp and Paper Industry (U.S.), 1980      *Nonwoven Fibers and Binders 1981* Technical Association of the Pulp and Paper Industry, 1981      1981 Nonwoven Fibers & Binders Technical Association of the Pulp and Paper Industry, 1981      *1981 Nonwoven Fibers & Binders*, 1985      1979 Nonwoven Fibers, 1984      **Seminar Notes: 1979 Nonwoven Fibers** Technical Association of the Pulp and Paper Industry (U.S.), 1979      **1981 Nonwoven Fibers & Binders** Edward H. Silk, 1981      **Nonwoven Fibers and Binders**, 1981      *1979 Nonwoven Fibers*, 1979      Nonwoven Fibers, 1980      **1983 Nonwovens**, 1983      **1982 Nonwovens**, 1982

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