



Sorona™ – The Start of Smart

DuPont™ Sorona™ is the “smart” ingredient that imparts distinctive characteristics to fibers, fabrics, specialty resins and nonwovens. It is an innovative family of polymers that has unique properties and characteristics as a fiber – resilience, comfort-stretch and recovery, softness and easy-care.

The key ingredient of Sorona™ is 1,3 Propanediol (PDO), based on 3GT molecular polymer technology. While current fiber-grade PDO is manufactured using a petrochemical process, DuPont has developed a new method to produce PDO using a fermentation process based on corn sugar – a renewable resource. DuPont is planning to transition to the new bio-based process.

The Future of Sorona™: Clothing From a Cornfield

The new bio-based PDO was produced by DuPont scientists at a pilot plant in the Decatur, IL, facility of Tate & Lyle, a major corn-based products company with expertise in fermentation processes and a development partner with DuPont in the bio-based PDO initiative.

Fabrics made with Sorona™ offer outstanding flexibility and versatility to apparel designers and manufacturers to respond to changing trends and lifestyles, as well as outstanding versatility. Sorona™ can be used for a variety of fabric to create anything from a tissue-soft negligee to a high-bulk fleece jacket. It can be dyed at 100C without carriers or pressure to produce fabrics with rich, vivid colors.

DuPont discovered the original 3GT advance polymer platform more than 50 years ago. It was not until recently that a commercially-viable production process was discovered. Since then, more than 100 patents related to Sorona™ have been generated.