

BIOCHEM show case

Discovery and development of sustainable materials offering the properties expected for modern garments

Problem

Many of the modern, versatile fibres used by the clothing industry rely on dwindling petrochemical feedstocks.

Technical solution

Sorona is a semi-crystalline, synthetic polymer based on 1,3-propanediol with a uniform structure that can be spun into fibres in the same processes as used for petrochemical polymers. The diol is sourced from corn resulting in a 37% renewable content in the final polymer.

Benefits

Compared with equivalent synthetic polymers:

- **63% less greenhouse gas emissions**
- **30% less energy (than equivalent nylon production)**
- **Reduced waste**
- **Softer and stretchier**
- **UV and chlorine stable (excellent for swimwear)**
- **Holds bright colours well and can be dyed at lower temperatures than polyester**

Sorona is manufactured by DuPont.

Partnerships for better
innovation support



Eco-Innovation
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Further information

DuPont website

<http://www2.dupont.com/biosciences/en-us/sorona/dupont-sorona.html>