

# NANOFIBERS FROM RECYCLED POST-CONSUMER CARPET

## Filtration & Acoustical Products Made from Recycled Post Consumer Carpet (PCC) Using Verdex Beam Technology.



As part of a grant with Carpet America Recovery Effort (CARE), Verdex Technologies has developed innovative technology that can take recycled PET carpet (and bottles) and turn it into nonwoven apparel, filtration and acoustical products.

Verdex's patented spinning nozzle technology converts PCC material directly into nano/micro fibers which are blended with larger fibers to form the apparel, air and acoustical filtration products.

Verdex technology is capable of spinning recycled cleaned PET carpet containing polypropylene and calcium carbonate components to form apparel, air filtration and acoustical products.



### Alternative To Landfilling

Spinning post-consumer carpet material into nonwoven products is an alternative to landfilling the carpets.



### PET California Post-Consumer Carpet

Verdex technology is capable of spinning recycling cleaned PET California-Generated Post-Consumer Carpet "Compressed" Product (Containing PP and Ash) into nanofibers.



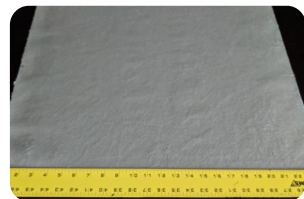
### Verdex Spinning Process

Verdex technology is capable of spinning recycling cleaned PET California-Generated Post-Consumer Carpet "Compressed" Product (Containing PP and Ash) into nanofibers.



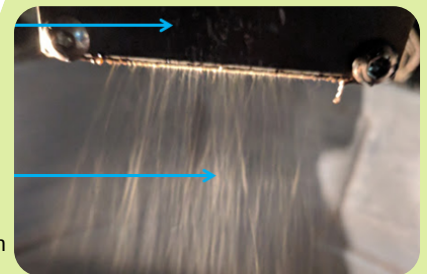
### Filtration & Acoustical Products

Verdex's patented spinning nozzle technology converts PCC material directly into nano/micro fibers which are laid down to form sheet layer components of nonwoven apparel, filtration and acoustical products.



Recycled Polymer is estimated to be half the price of Virgin Polymer

Verdex Nozzle



Circular Polymers PCC Compressed Material being Spun with Verdex Nozzle