

# Recycling

Sorona® is a thermoplastic material that can be melted and reformed

Recycling of post-consumer carpet made with Sorona® :

Unique property attributes (advantage over nylons)

- Most stains and contaminants can be removed through hot water extraction
- Low moisture regain – easier to dry
- Relatively lower melting point versus Nylon 6,6 or PET (energy savings)
- PET compatible

Proposed methods for recycling include:

- Face Fiber collection: reprocessing and extrusion to high quality pellets for new carpets
- Chemical recycling: involves breaking down the polymer and then polymerizing into new polymer.
- Conventional carpet recycling processes can be applied. For example: convert fibers into automobile parts, injection molded components, Geotextiles, carpet pad, etc.
- Waste-to-Energy: Products that cannot be converted into new carpet can be converted into fuel.