Key Messages

• The market is hungry for innovative new materials

• Moving towards the Bioeconomy means getting to accessible price points

• DuPont believes that the winning formula for Biomaterials is:
  
  New Feedstocks + New Conversion Technologies

  = New Better Products

• Sorona® is one great example of how this approach has worked

• FDME/PTF and Enzymatic Polysaccharides are DuPont’s next wave
Sustainability has gone Mainstream and is highly Desirable, Yet Products still Face Adoption Challenges

84% of consumers want sustainable products. 66% are willing to pay more. Yet only 10% buy products for sustainability features.

Many consumers believe products that are better for the environment don’t work & are hard to find.

Products must offer both Performance and Sustainability

**Performance**
- Quality
- Affordability
- Availability
- Convenience

**Environment**
- Social
- Community
- Experiential
- Engagement
DuPont Biomaterials Delivers the Eco-Conscious Product Trifecta

Rethink Renewable Performance

INNOVATIVE SCIENCE

SCALABLE SUPPLY

RENEWABLE SOURCING

HIGH PERFORMANCE

ACCESSIBLE & AFFORDABLE

RESPONSIBLE BIOMATERIALS
The Story of Sorona®

1. Harvest feedstock
2. Ferment sugar into Bio-PDO™
3. Add TPA to Bio-PDO™ to produce Sorona®
4. Fibers and fabrics created with Sorona®
5. Apparel and carpet made with Sorona®

Sorona® is made, in part, with annually renewable plant-based ingredients.
Carpet

Exceptional Softness

Inherent Stain Resistance

Crush Resistant Durability

Apparel

Exceptional Softness

Stretch & Recovery

Wicking, Fast Drying

Lightweight, Breathable Warmth
Performance Benefits are Critical and Lead Sorona® Messaging

**Comfort & Stretch**
- Movement: For being on the go.
- Durability: For maintaining performance over time.
- Softness: For everyday, day-out comfort.
- Easy Care: For keeping it simple.
- Eco-Efficiency: For sustainable living.

**Insulation**
- Warmth: For lightweight, breathable comfort.
- Quick Dry: For taking on any challenge.
- Durability: For resistance over time with easy care.
- Recovery: For staying on the move.
- Eco-Efficiency: For sustainable living.

**Indulge Your Senses in Softness**
- Softness: Enjoy the difference in a finer, softer, more comfortable fabric.
Performance Benefit Icons Are Used Throughout Sorona Communications

- Smoother Feel:
- Patented Technology:
- Insulation:
- Stretch & Recovery:
- Renewably Sourced:
- Quick-Dry:
- Fade Resistance:
- Durability:
- Reducing Pilling:
- Softness:
- Wrinkle Resistance:
- Brilliant Color:
Sorona Brand Partners Highlight Performance and Sustainability

MÉRINOLUX™
THE PERFORMANCE OF MERINO.
THE SOFTNESS OF
ECO-CONSCIOUS SORONA.

- Eco-Conscious Sorona Blend
- Shrink Resistant
- Extra Soft
- Temp Regulating
- Controls Odor

DÍAÑLÓ
COOL AS HELL

- Eco Conscious Sorona Blend
- Lightweight Performance
- Extreme Breathability
- Quick Drying Fabric
Extending Sorona®: FDME-Based Polymers

With their combined expertise in agriculture and food science, the two companies developed an innovative new process for turning fructose into biomaterial – specifically, the molecule furan dicarboxylic methyl ester (FDME) – a building-block that can be converted into a number of high-value, bio-based chemicals or materials.

This scientific breakthrough opens the door to new polymer groups and has created a more efficient, economically viable process.
The Impact of FDME

This simpler, more efficient approach to producing FDME benefits customers in a number of ways

**Higher Yields and Lower Operating Costs**
This breakthrough process delivers the possibility of commercially available FDME. Compared to the current process, which also makes other by-products, this innovative process uses all sugar in the feedstock, either to make FDME or for energy recovery.

**Better Performance**
This process means increased performance for all the products that will use FDME as a building block, including high-performance renewable chemicals and polymers (polymers, polyamides, plasticizers and polyurethanes) with applications in packaging, textiles, engineering plastics and many other industries.

**Smarter, Renewable Materials**
Not only can this replace petroleum-based materials in a wide variety of applications, the process of making FDME is smarter. Additionally, with all the process steps co-located in one facility, all operations are more energy efficient.

New monomer creates new polymers with breakthrough barrier properties
The Next Breakthrough in Biomaterials: Enzymatic Polysaccharides

Learning from Nature to create new high performance Biomaterials
Key Messages

• The market is hungry for innovative new materials

• Moving towards the Bioeconomy means getting to accessible price points

• DuPont believes that the winning formula for Biomaterials is: New Feedstocks + New Conversion Technologies = New Better Products

• Sorona® is one great example of how this approach has worked

• FDME/PTF and Enzymatic Polysaccharides are DuPont’s next wave