Through integrated science and strategic partnerships, DuPont has developed revolutionary ways of producing high-performance materials from renewable resources.

DuPont™ Sorona® EP thermoplastic polymer

RENEWABLY SOURCED MATERIAL SOLUTIONS

DUPONT®

The miracles of science™

DuPont™ Sorona® EP
renewably sourced™ thermoplastic polymer*

DuPont™ Sorona® EP Thermoplastic Polymer

Renewability Goes a Long Way

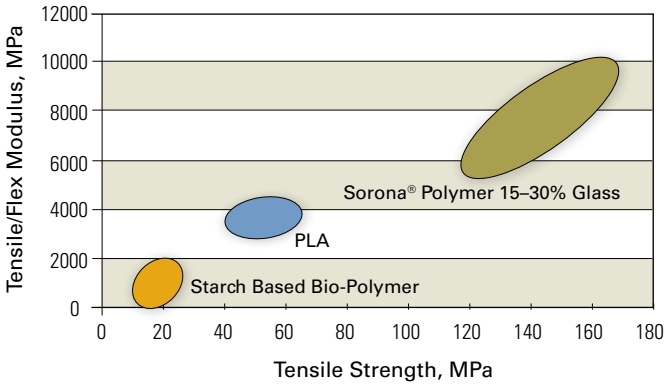
Renewably Sourced Materials from DuPont can help reduce dependence on petroleum and reduce the net production of greenhouse gases…all without compromising performance.

INTRODUCING

DuPont™ Sorona® EP Thermoplastic Polymer

DuPont™ Sorona® EP thermoplastic polymers contain between 20% and 37% renewably sourced material (by weight). The new material exhibits performance and molding characteristics similar to high-performance PBT (polybutylene terephthalate).

Strength versus Stiffness of renewably sourced materials



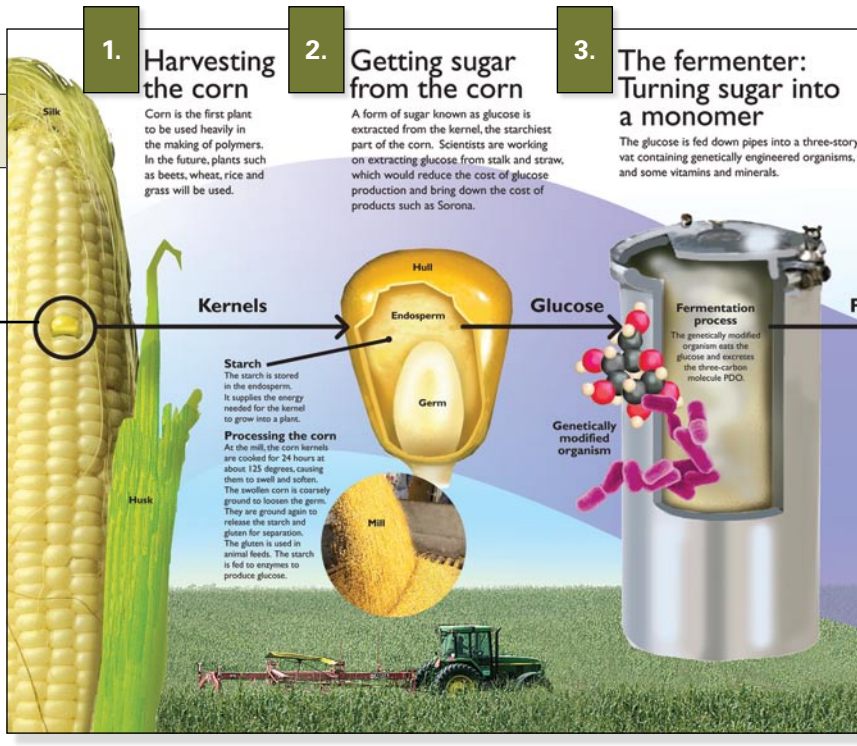
In addition to good strength and stiffness, early tests indicate improved surface appearance, lower warpage and good dimensional stability, making it very attractive in a range of uses for automotive parts and components, electrical and electronics systems as well as industrial and consumer products.

DuPont™ Sorona® EP thermoplastic polymers are made with a key intermediate called Susterra™** renewably sourced propanediol (made from corn sugar). The exact percentage of renewably sourced content for each commercial product is available on www.renewable.dupont.com.

Sorona® EP thermoplastic polymer starts with the basic Sorona® polymer (fiber) chemistry, then uses a proprietary formulation technology to create high-performance engineering polymer resins.

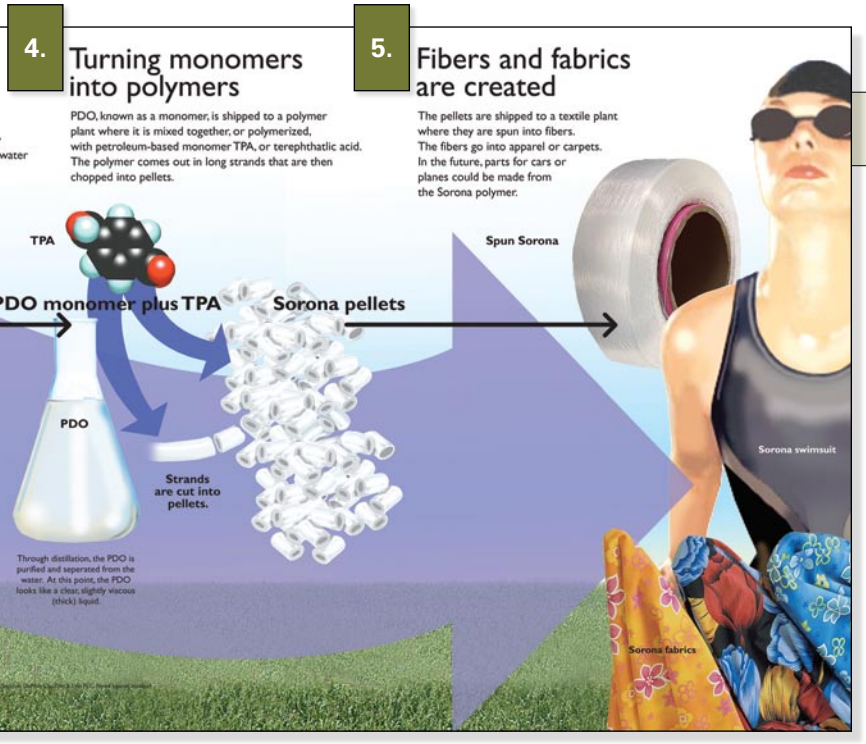
FROM CORN TO POLYMERS AND FIBERS

From seeds to feedstocks to the proprietary fermentation and chemical processes that convert agricultural products into the key building blocks of the advanced products we use every day, DuPont brings nature and science together in harmony.



DuPont™ Sorona® EP Product Information

				Sorona®3015G NC010	Sorona® 3030G NC010
Stress at Break	ISO 527	MPa (kpsi)	23°C	123 (17.8)	162 (23.5)
Strain at Break	ISO 527	%	23°C	3	2.5
Tensile Modulus	ISO 527	MPa (kpsi)	23°C	6200 (900)	10400 (1510)
Flexural Modulus	ISO 178	MPa (kpsi)	23°C	5700 (830)	9600 (1390)
Flexural Strength	ISO 178	MPa (kpsi)	23°C	190 (27.6)	245 (35.5)
Notched Charpy Impact	ISO 179/1eA	kJ/m²	–30°C	6	9
			23°C	5.5	9
Unnotched Charpy Impact	ISO 179/1eU	kJ/m²	–30°C	30	45
			23°C	30	50
Melting Temperature	ISO 11357–1/–3	°C (°F)		227 (441)	227 (441)
CLTE	ISO 11359–1/–2	E-4/°C (E-4/°F)			
Flow			–40 to 23°C	0.34 (0.19)	0.25 (0.14)
			23 to 55°C	0.15 (0.08)	0.07 (0.04)
			55 to 160°C	0.22 (0.12)	0.16 (0.09)
Trans			–40 to 23°C	0.74 (0.41)	0.67 (0.37)
			23 to 55°C	0.89 (0.49)	0.83 (0.46)
			55 to 160°C	1.32 (0.73)	1.2 (0.67)
Density	ISO 1183	kg/m³ (g/cm³)		1400 (1.40)	1560 (1.56)
Mold Shrinkage, 2 mm	ISO 294	%			
80°C Mold			Parallel	0.5	0.3
			Normal	0.7	0.8
110°C Mold			Parallel	0.6	0.4
			Normal	0.8	0.8

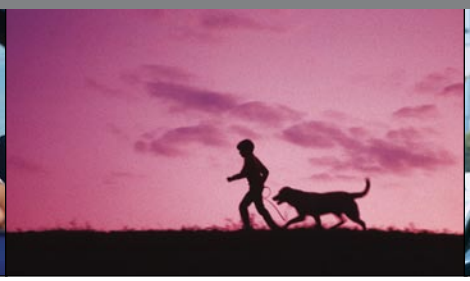


DuPont™ Renewably Sourced Materials* ...

- Cerenol™ polyols
- Hytrel® RS thermoplastic elastomers
- Biomax® RS renewably sourced resins
- Pro-Cote® soy polymers
- Selar® VP barrier resins
- Sorona® polymers
- Susterra™ propanediol
- Zemea™ propanediol

...an idea whose time has come

DuPont™ Sorona® EP Thermoplastic Polymer


DuPont Renewably Sourced Materials—an idea whose time has come

DuPont renewably sourced materials are ideal substitutes for products that today are based solely on petroleum. Through DuPont innovation, key building blocks for many of the materials we use every day can now be derived from renewable resources — creating a much smaller environmental footprint than their petroleum-based predecessors with no compromise in performance. Either as a fuel or as an ingredient in the production of products, Renewably Sourced Materials are an idea whose time has come.

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For more information about, DuPont Renewably Sourced Materials, visit renewable.dupont.com

For more information about DuPont™ Sorona® EP Thermoplastic Polymer visit plastics.dupont.com

**DuPont Renewably Sourced Materials must contain a minimum of 20% renewably sourced ingredients by weight to qualify for the program.*

*** Susterra® is produced and sold through the DuPont Tate and Lyle BioProducts joint venture.*

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