New eco-sustainable performances in polyester yarns

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AGENDA

- **COMPANY PRESENTATION**
- **SUSTAINABLE MOBILITY**
- **SUSTAINABLE DEVELOPMENT: PRODUCTS AND PROCESSES**
- **CONCLUSIONS**

SINTERAMA MISSION

OUR AMBITION IS BEING RECOGNIZED AS A LEADING PRODUCER OF POLYESTER **COLOURED YARNS**, WITH AN ACTIVE AND QUALIFIED PRESENCE IN THE **GLOBAL MARKET**.

WE PAY SPECIAL ATTENTION TO ALL THE APPLICATIONS FOR **AUTOMOTIVE, FURNISHING AND SPECIFIC END-USES**.

WE INTEND TO DISTINGUISH OURSELVES FOR PRODUCT **INNOVATION AND QUALITY**, FOR OPTIMUM **SERVICE** AND CUSTOMER ASSISTANCE, FOR **ENVIRONMENTAL SUSTAINABILITY**.

GLOBAL PRESENCE

MAIN FIGURES 2010

- **SALES** 110 mil. €
- **PEOPLE** 650
- **LOCATIONS** 6 EUROPE, TURKEY, BRAZIL, CHINA
- **PRODUCTION** 28.000 ton

90% IS

COLOURED YARN

AGENDA

COMPANY PRESENTATION

SUSTAINABLE MOBILITY

SUSTAINABLE DEVELOPMENT: PRODUCTS AND PROCESSES

CONCLUSIONS

WHAT IS SUSTAINABLE MOBILITY?

"It is the ability to meet society's need to move freely, while at the same time using the earth's limited resources responsibly, minimizing environmental impacts, relying on renewable sources of energy and fulfilling the industry's essential role of moving world economies forward."

(www.drivingsustainability.com)

IT'S A WAY OF DOING BUSINNESS

IT'S AN INCREASINGLY IMPORTANT KEY FACTOR FOR COMPETITIVENESS

SHARED RESPONSABILITY

IT RESULTS FROM LINKING:

GOVERNMENT

- Consistent and long term CO_2 reduction policies
- Incentives to adopt low-carbon products
- Investments in energy & fuel infrastructure

ENERGY

- Development of new low-carbon fuels
- Development of alternative fuels
- Electricity infrastructure (e.g. charging stations, new recharging systems)

CONSUMERS

- Eco-driving
- Education and information about mobility choices and incentives

AND TECHNOLOGY

(www.drivingsustainability.com)

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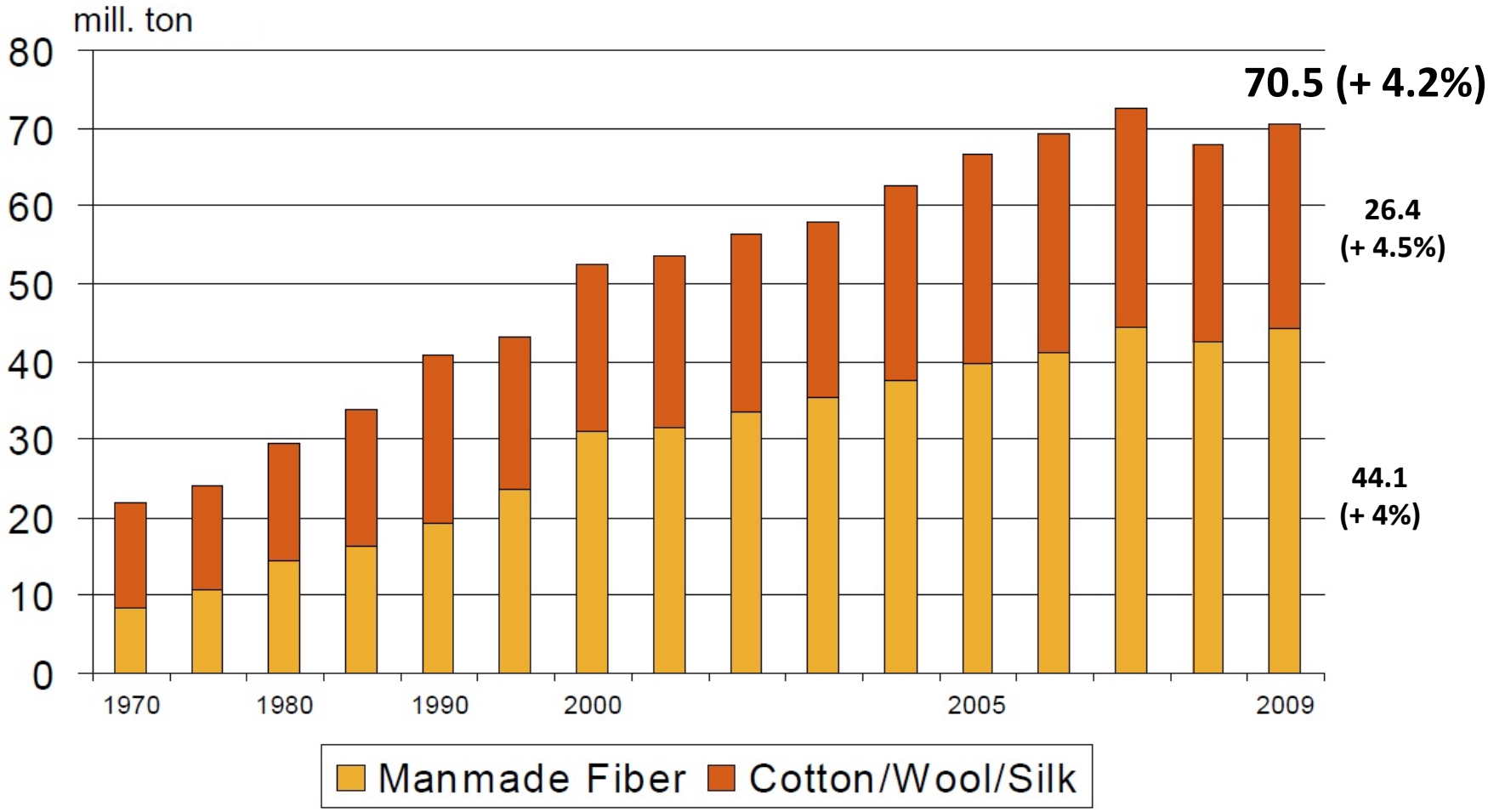
RECYPES

RecyPES

recycled polyester yarns

2009 TEXTILE FIBRES WORLD CONSUMPTION



OUR PLAYGROUND

- **MMF CONSUMPTION: 60% OF TOTAL CONSUMPTION**

- **IT REPRESENTS ONLY 0,4% OF TOTAL OIL CONSUMPTION**

HOW RECYCLE

Post - Industrial recycling

Material that has been diverted or recovered from the solid waste stream of a manufacturing process. It is material that never made it to the consumer market. It is also known as ”post-commercial” or “industrial scrap”.

Post - Consumer recycling

Material that has served its useful life with a consumer is recovered from the waste stream.

Agricultural Waste recycling

Material that is derived from agricultural waste products.

RECYPES

FLAKES

DE-POLIMERIZATION

RE-POLIMERIZATION

CHIPS

SPINNING &

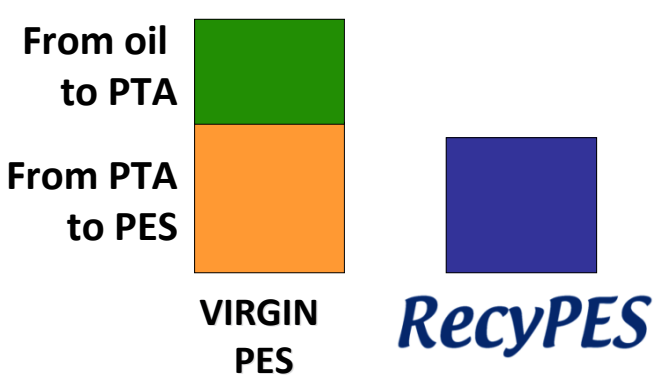
TEXTIRISING

RecyPES

recycled polyester yarns

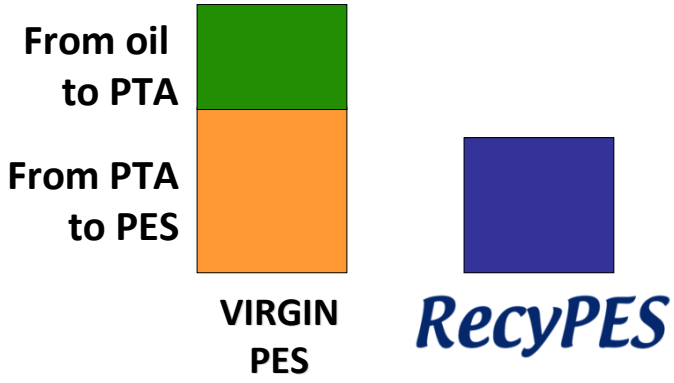
RECYPES VS. VIRGIN PES

NON RENEWABLE ENERGY
+
MATERIAL CONSUMPTION
(MJ / 1 ton PES)



- 53%

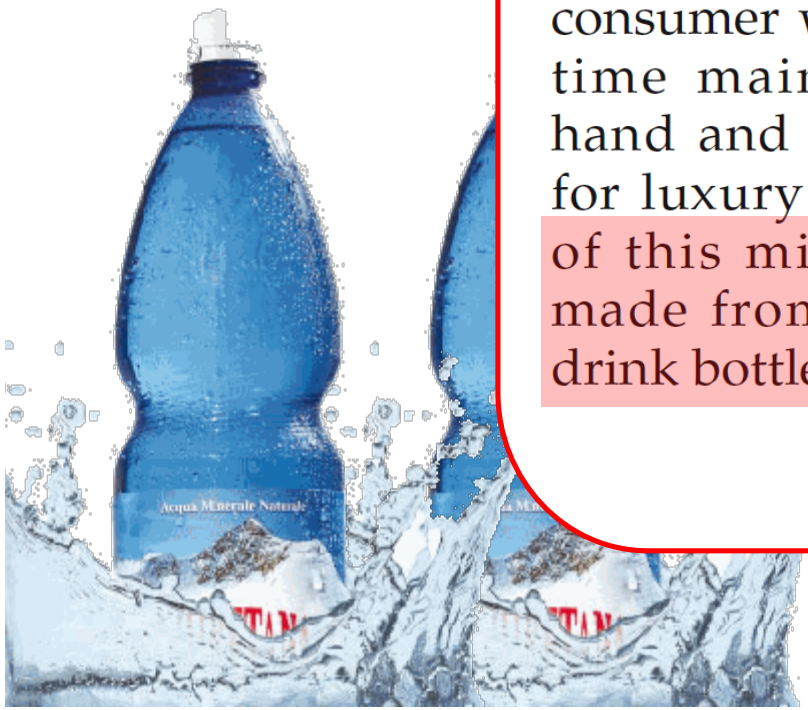
CO_2 EMISSIONS
(ton / 1 ton of PES)



- 55%

RECYPES: AN EXAMPLE

- 100% post-consumer recycled yarn in seat fabrics. The 2010 Ford Taurus SHO and Lincoln MKZ utilise fabrics made from drink bottles to further reduce consumer waste and at the same time maintain the luxurious hand and appearance required for luxury vehicles. Each metre of this micro-denier suede is made from 20 recycled plastic drink bottles.



automotive

on eco-friendly
d processes

The 2008 Ford Escape was the first vehicle in the US to use seating surfaces made from 100% post-industrial recycled fabric

y-car sign, must exhibit rich
urs and textures, whether it
rived from a natural veneer
ore eco-friendly reconsti-
ood veneer.
researchers are chal-
th developing alterna-
r materials that per-
t compromise to
r durability, can be
in a more eco-
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ble substitute, e
recy-
cled items, such as
ans
and plastic drink bottl
o-
based sources, such as
wheat straw, corn and soybean
The goal is to provide the
company with as many sustain-
able material choices as possible
for interior components front to
back, from seat cushions and fab-
rics to underbody and impact
shields, headliners, trunk liners
and more.

In vehicles today

Ford's use of sustainable mate-
rials for vehicle interiors in North
America includes:

- Award-winning soy-based polyurethane foams on the seat cushions and seat backs, now in production on the Ford Mustang, Expedition, F-150, Focus, Escape, Escape Hybrid, Mercury Mariner, Lincoln Navigator and Lincoln MKS. Within a year after its 2007 introduction on the Mustang, Ford was using soy-foam seats on more than 1m vehicles, which results in a reduction of petroleum oil usage by 450 tonnes annually. This year, Ford is expanding its soy-foam portfolio to include the industry's first application of a soy-foam headliner on the 2010 Escape and Mariner.
- 100% post-industrial recycled yarn in seat fabrics. The 2008 Ford Escape was the first vehicle

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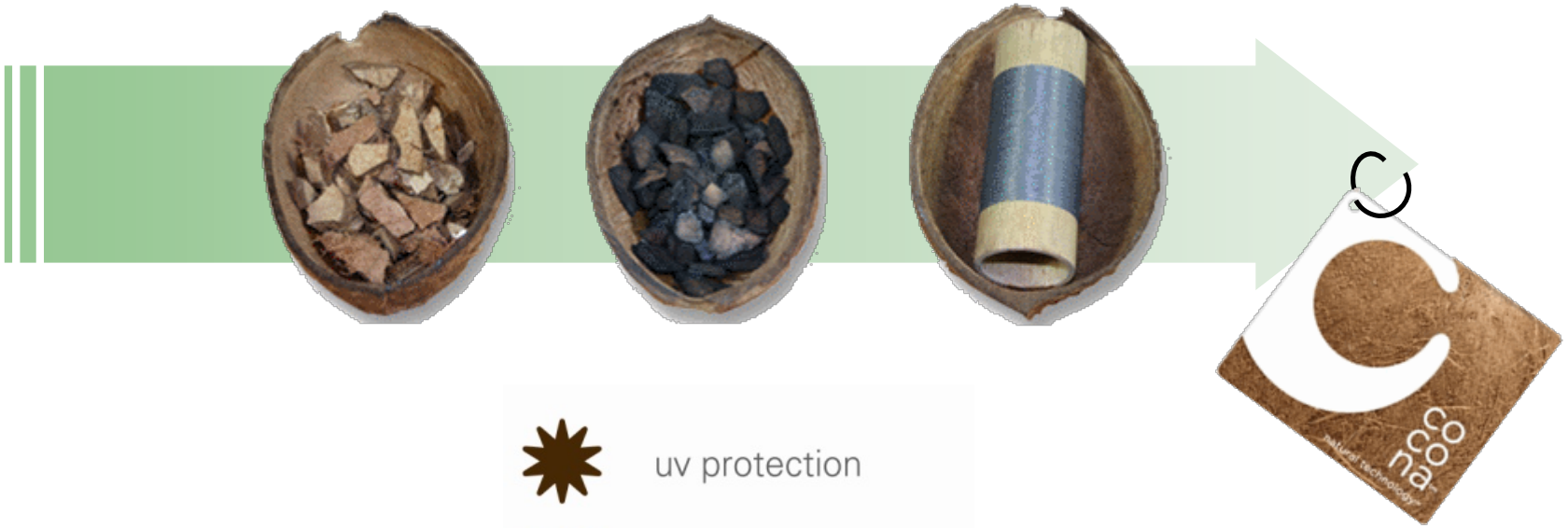
COCONA

natural technology™

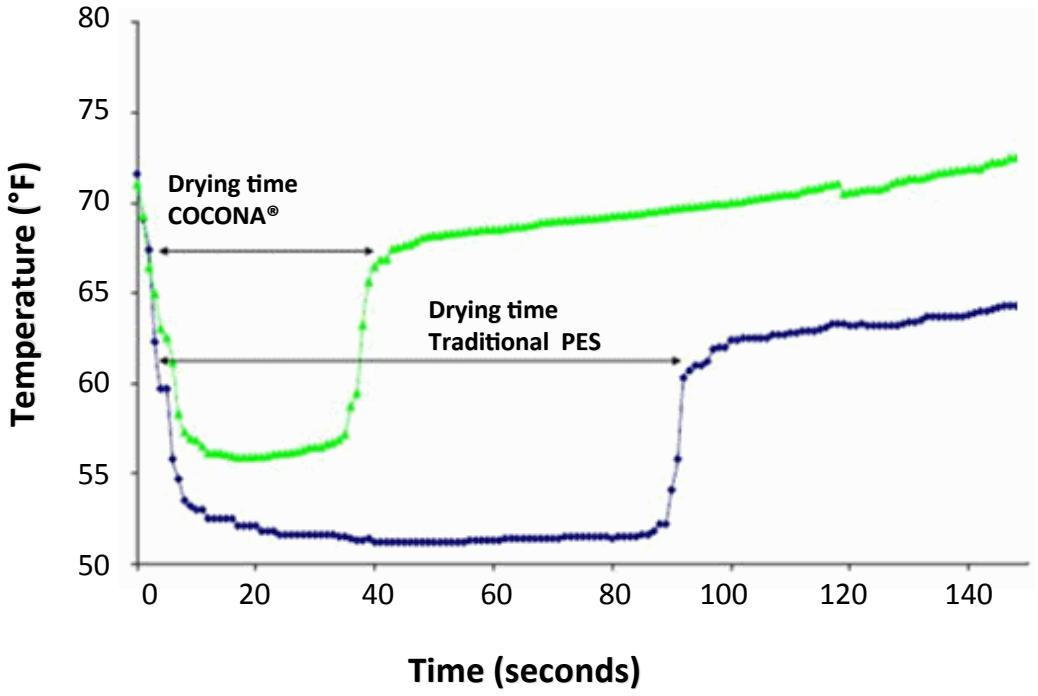
WITH ACTIVE CARBONS DERIVED FROM THE COCONUT SHELLS WASTED BY THE FOOD INDUSTRY

COCONA: PERFORMANCES



- uv protection
- odor resistant
- evaporative cooling
- natural
- comfort

COCONA: THERMAL REGULATION

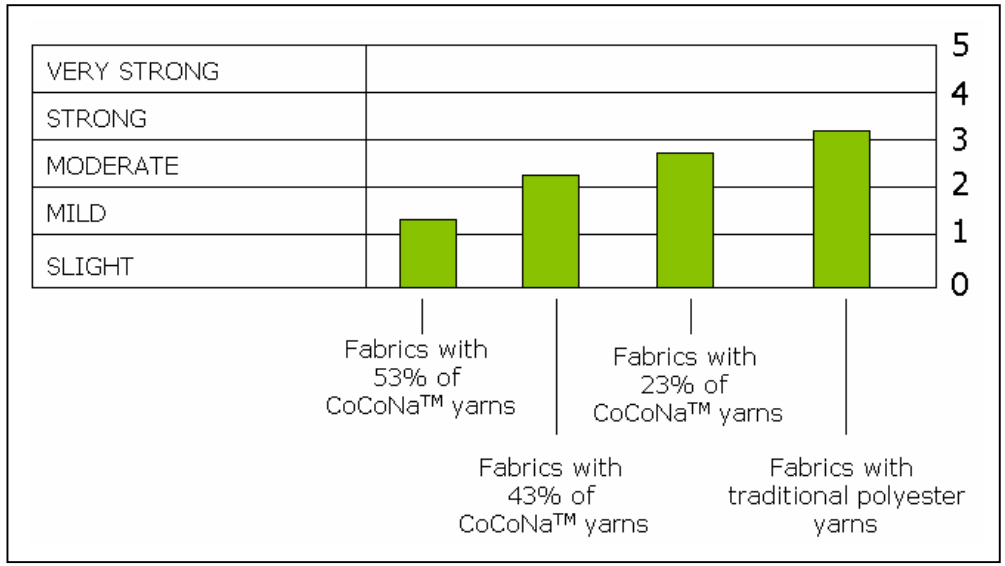


Faster water adsorption

Faster evaporative action

Increased driving/sitting comfort

COCONA: ODOUR ADSOPTION



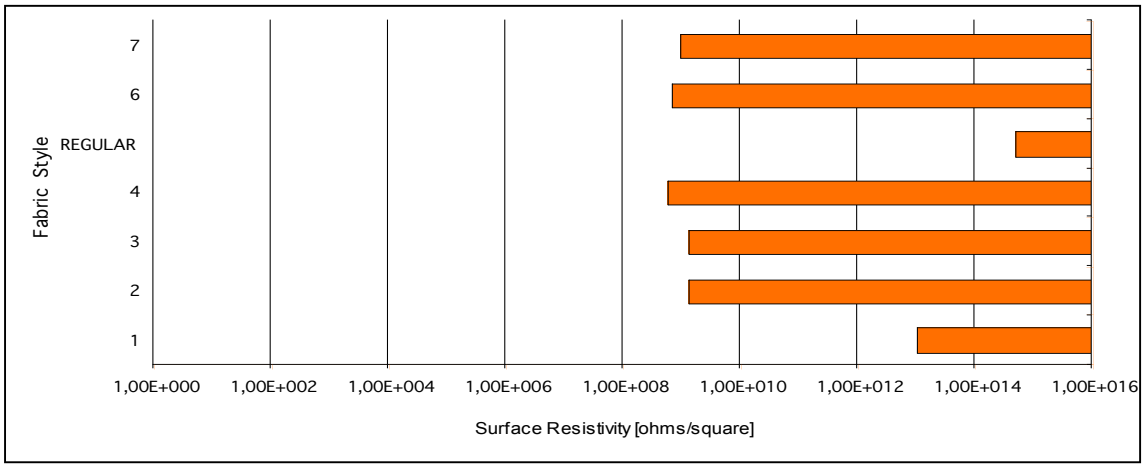
Faster odour adsorption

Reduced smell tendency

Easy renewable

Increased driving/sitting comfort

COCONA: SURFACE RESISTIVITY



Reduced triboelectric charge

Faster electrostatic Discharge

Increased driving/sitting comfort

COCONA: BRANDING

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CONCLUSIONS

SUSTAINABLE INNOVATION:

- **IS POSSIBLE!**
- **MEANS CLEANER PROCESSES**
- **MEANS RESPONSIBLE PRODUCTS**

… BUT ABOVE ALL

IT'S A PRECISE DUTY FOR ALL OF US