

“Social and Environmental Responsibility
within the production chain from chemicals
to synthetic fibres”.

Filippo Servalli, Corporate Marketing Head, RadiciGroup



Busto Arsizio, 15 Novembre 2013

RADICIGROUP: A PROFILE

RadiciGroup is one of the most active chemicals companies at an international level. Its diversified businesses operate worldwide and are focused on Chemicals, Plastics and Synthetic Fibres. One of RadiciGroup's key strengths is the synergistic vertical integration of its polyamide chain. The Group has total control over its production chain, from chemical intermediates, such as adipic acid and polyamide 6 and 66, to engineering plastics, and man-made fibres.

RadiciGroup's products are exported all over the world, and are the starting-point for developments in the clothing, sport, furnishings, automotive, electrical/electronic and appliances sectors.

1.089 millions of euro
Bilancio Consolidato 2012
RadiciPartecipazioni spa



3230 employees



A FAMILY-OWNED GROUP

In 1941 Pietro Radici part with the production of blankets and bedspreads. Since the '50s, the son Gianni Radici begins the diversification of production, with carpets, seat covers, car mats and since 1964 with the production of synthetic leather. In the '80s, we see the development of the business of fertilizers (1981) and chemistry (1986).

Today the group is managed by Angelo Radici, vice-president Maurizio Radici and Paul Radici.



POLYAMIDE PRODUCTION CHAIN

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OUR FEET IN EUROPE, OUR HEAD IN THE WORLD

EUROPE

Mendrisio (CH)
Stabio (CH)
Podborany (CZ)
Overath (D)
Hamburg (D)
Lüneburg (D)
Reutlingen (D)
Tröglitz (D)
Viernheim (D)
Selbitz (D)
La Carolina (ES)
Saint Priest (F)
Szentgotthard (H)
Andalo Valtellino (IT)
Ardesio (IT)
Casnigo (IT)
Chignolo d'Isola (IT)
Gandino (IT)
Novara (IT)
Trivero (IT)
Villa d'Ogna (IT)
Savinesti (RO)
London (UK)

AMERICA

Buenos Aires (RA)
Rio Grande (RA)
Araçariguama (BR)
São José dos Campos (BR)
Gastonia (USA)
Wadsworth (USA)

ASIA

Noida (IND)
Shanghai (CN)
Suzhou (CN)



SUSTAINABLE DEVELOPMENT: RADICIGROUP GUIDELINES

1) Organizational Models: ISO 9000, ISO 14000, AS 18000, SA 8000, ISO 50001, 64.

2) Certification: voluntary & mandatory

- REACH

- LCA applied

- Eco-Profile, Eco

- OEF, PEF

3) Kyoto protocol, materials.

4) Sustainable development, an approach based on... initiative pr



CHEMICALS AND SUSTAINABILITY

a relationship growing little by little....



REACH

The Council Regulation (EC) No. 1907/2006 of the European Parliament of the Council of 18 December 2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH)

ATTUALITÀ - PERSONAGGI - TREND

Il workshop dell'Echa

“Il Reach aiuterà la chimica europea”

L'European Chemical Agency ha spiegato in un convegno i vantaggi che il regolamento porterà non solo alla salute dell'uomo e dell'ambiente, ma anche alla competitività delle industrie. Per agevolare la registrazione di una medesima sostanza da parte di diverse aziende, l'Echa consiglia fortemente la condivisione dei dati. Già 2.300 sostanze sono state identificate per la scadenza della seconda registrazione nel 2013

di Ferruccio Trifiro



SAFETY OF MATERIALS. A WELL-KNOWN CONCEPT...



COMMUNIQUE DE PRESSE

PRESS RELEASE

Contact: Johannes Kleis: +32 (0)2 789 24 01
Date: 05/06/2012
Reference: PR 2012/017

Chemical foul play in EURO 2012 football shirts

In a few short 3 days, Europe's best football players kick-off the European football championship in jerseys containing harmful and toxic substances new findings by BEUC members¹ reveal.

Having tested 9 official EURO 2012 shirts, all were found to have worrying levels of chemical content. Lead, a heavy metal, is found in 6⁷ out of 9 tested shirts. In kits from Spain and Germany, lead exceeds recommended levels for children products. Ronaldo, van Persie and their teammates from Portugal and the Netherlands will play in shirts containing nickel. Host country Poland's shirt should be banned outright from shops as it contains an organotin compound (used to prevent sweat odour) in higher doses than legal limit. Organotin can be toxic to the nervous system. Nonylphenol - which can disrupt the endocrine system and is banned from wastewater because of its harmful effect on the environment - was found in Spain and Italy shirts.

Monique Goyens, Director General of BEUC, commented:

"Football fans pay up to €90 for the shirt of their favourite team. The least they should expect is to have a quality and safe product. It is inexplicable that heavy metals are used in mass consumer products. It is clearly foul play by manufacturers to use substances harmful to both people and the environment."

These results are a sad reminder that Europe's chemicals legislation is unfit for the... The upcoming review of



RESPONSIBLE CARE®

Responsible Care, a program that allows you to implement the principles and more responsible behaviors and to involve all business functions into four main areas:

Health and Safety of employees.

Environmental protection.

Process Safety.

Product Stewardship.



Responsible Care®
OUR COMMITMENT TO SUSTAINABILITY



HOWEVER... THE REPUTATION OF THIS SECTOR NEEDS TO BE RE-BUILT ...

L'Espresso a cura di Gianni Ferré

E il fashion scopre l'eco-sostenibilità

Solo materiali di riuso (non riciclati) per il progetto industriale di Ilaria Venturini Fendi

Non di soli red carpet vive la moda, anche se le cronache arrivate dal Festival del Cinema di Cannes sembrano quelle della sfilata più lunga del mondo. Basta pensare che alla seconda edizione del Copenhagen Fashion Summit, dedicato alla moda eco-sostenibile e tenuto una decina di giorni fa, hanno partecipato un migliaio tra manager, designer, esperti e Ong per identificare le linee guida del settore. Animati dalla consapevolezza che una moda respon-

sabile è anche desiderabile e innovativa.

Come sostiene uno dei gruppi di maggior successo, Ppr, il cui direttore dell'Acting Sustainability Programme ha annunciato come obiettivo da raggiungere entro il 2015 il taglio del 25% delle emissioni di CO2 e l'utilizzo di materiali provenienti da produzioni a un impatto minimo sull'ambiente e sulla popolazione locale. Una green revolution che tocca marchi del calibro di Gucci e Bottega Veneta.

Perché è questo il segno nuovo e sofisticato dell'universo eco-friendly, che entra così nel settore del fashion professionale. È il percorso seguito in questi anni da Ilaria Venturini Fendi con il suo progetto Carmina Campus: borse e accessori realizzati con materiali di riuso. «Non riciclo - specifica - che significherebbe processi di trasformazione chimici o industriali».

Si tratta di materiali che giacciono dimenticati,

idee Ilaria Venturini Fendi

fondi di magazzino, spesso poveri, che poi segue nelle manifatture, con la stessa cura che riservava alle borse fatte un tempo, quando lavorava nella maison di famiglia (oggi nel Lvmh).

«Amavo moltissimo il mio lavoro, ma a un certo punto mi sono sentita travolta dai suoi ritmi. Non riuscivo più a dare un senso a quello che facevo».

Il senso, l'ha trovato attraverso un doppia conversione: quella dell'azienda agricola, acquistata al-

le porte di Roma, in biologica e quella di se stessa a valori nei quali aveva sempre creduto senza riuscire a dar loro spazio, come un più stretto rapporto con la natura e l'interesse per sviluppare progetti socialmente utili. Dal connubio di questi desideri e tensioni ideali, dal 2006 si è sviluppato Carmina Campus, progetto esteso poi all'Africa grazie a un partner competente: Ittc, International Trade Centre, un'agenzia delle Nazioni Unite e dell'Organizzazione Mondiale del Commercio, la cui missione consiste nel promuovere lo sviluppo e opportunità di lavoro.

Per la sua straordinaria esperienza, questa giovane imprenditrice è stata invita-

ta a tenere una relazione a Rio+20, il forum organizzato a Rio de Janeiro dal Global Compact delle Nazioni Unite sul tema dell'eco-sostenibilità d'impresa (15-18 giugno). «Ma è una responsabilità che spero d'affrontare nel miglior modo possibile, raccontando la storia del mio lavoro in Africa per realizzare una linea di borse prodotta lì con materiali locali».

Al termine del convegno Ilaria Venturini Fendi partirà per Haiti dove l'Ictc le ha chiesto di avviare un nuovo progetto per un programma di lavoro e acquisizione di know-how. Come si dice: «Not charity, just work. Not beneficence, ma lavoro».



RIO+20
Conferência das
Nações Unidas
sobre
Desenvolvimento
Sustentável

borse e accessori realizzati con materiali di riuso. «Non riciclo - specifica - che significherebbe processi di trasformazione chimici o industriali».



The market is moving in the sustainability direction .

What do associations and brand do?



APPAREL COALITION

Consists of major fashion brands, retailers, manufacturers, non-governmental organizations and academic experts, as well as by the U.S. Environmental Protection Agency, the Sustainable Apparel Coalition of dedication to raising awareness on the issues of environmental protection and transparency in the methods of production of goods .



Adidas, Arvind Mills, ASICS, C&A, Duke Center for Sustainability and Commerce, Environmental Defense Fund, Esprit, Esquel, Gap Inc., H&M, HanesBrands, Huntsman, Intradeco, JC Penney, Kohl's Department Stores, Lenzing, Levi Strauss & Co., LF USA a division of Li & Fung Limited, L.L.Bean Inc., Marks & Spencer, Mountain Equipment Co-op, New Balance, Nike, Nordstrom, Otto Group, Outdoor Industry Association, Patagonia, Pentland Brands, Pratibha Syntex Limited, PUMA, REI, TAL Apparel, Target, Timberland, USA DuPont, U.S. Environmental Protection Agency, Verité, VF Corp, Walmart, WL Gore & Associates and WRI...



CIRFS: the umbrella organization for the European man-made fiber industry

The CIRFS represents the industry of synthetic fibers and cellulose fibers of member companies in Austria, Czech Republic, Estonia, Latvia, Lithuania, Poland, Romania, Slovakia, Spain, Sweden, Switzerland, and the Netherlands. It includes members from all European countries, together with a growing number of non-European countries.



CIRFS 
European
man-made
fibres
association



LEED CLASSIFICATION - U.S. GREEN BUILDING COUNCIL



The U.S. system of classification of the ecological footprint and energy efficiency of buildings LEED (The Leadership in Energy and Environmental Design), developed by the U.S. Green Building Council provides a set of standard measurement to evaluate environmentally sustainable buildings



Sustainability Site

Efficient management of water

Energy and atmosphere

Materials and resources

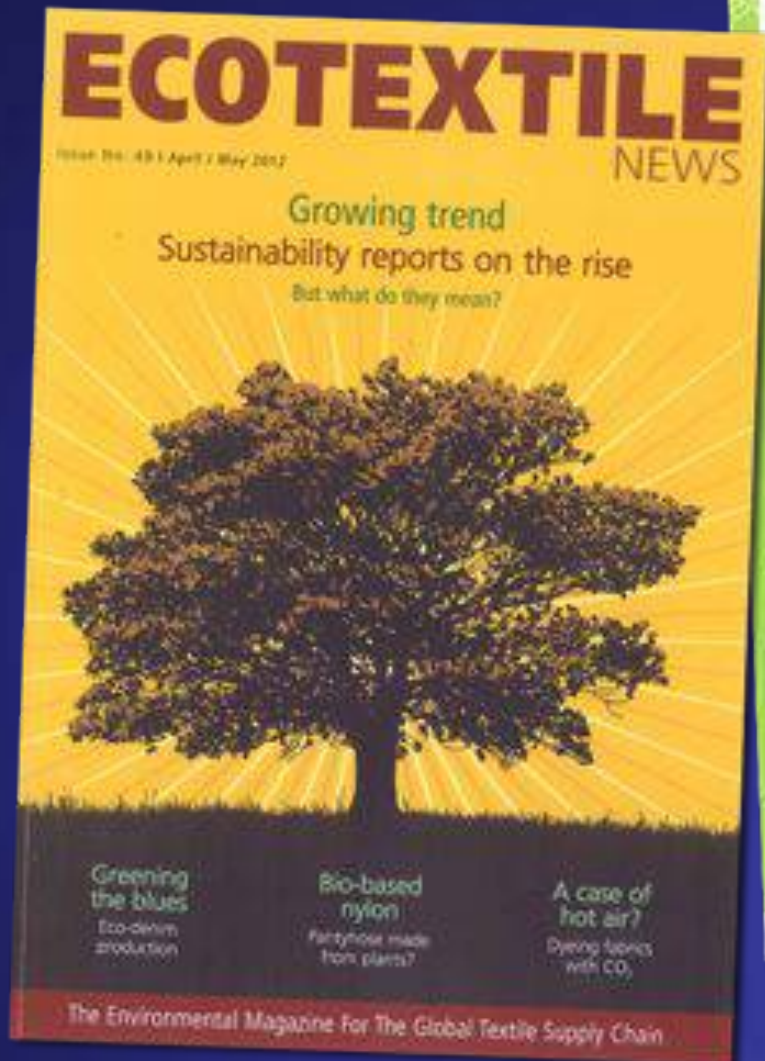
Indoor Environmental Quality

Innovation in Design

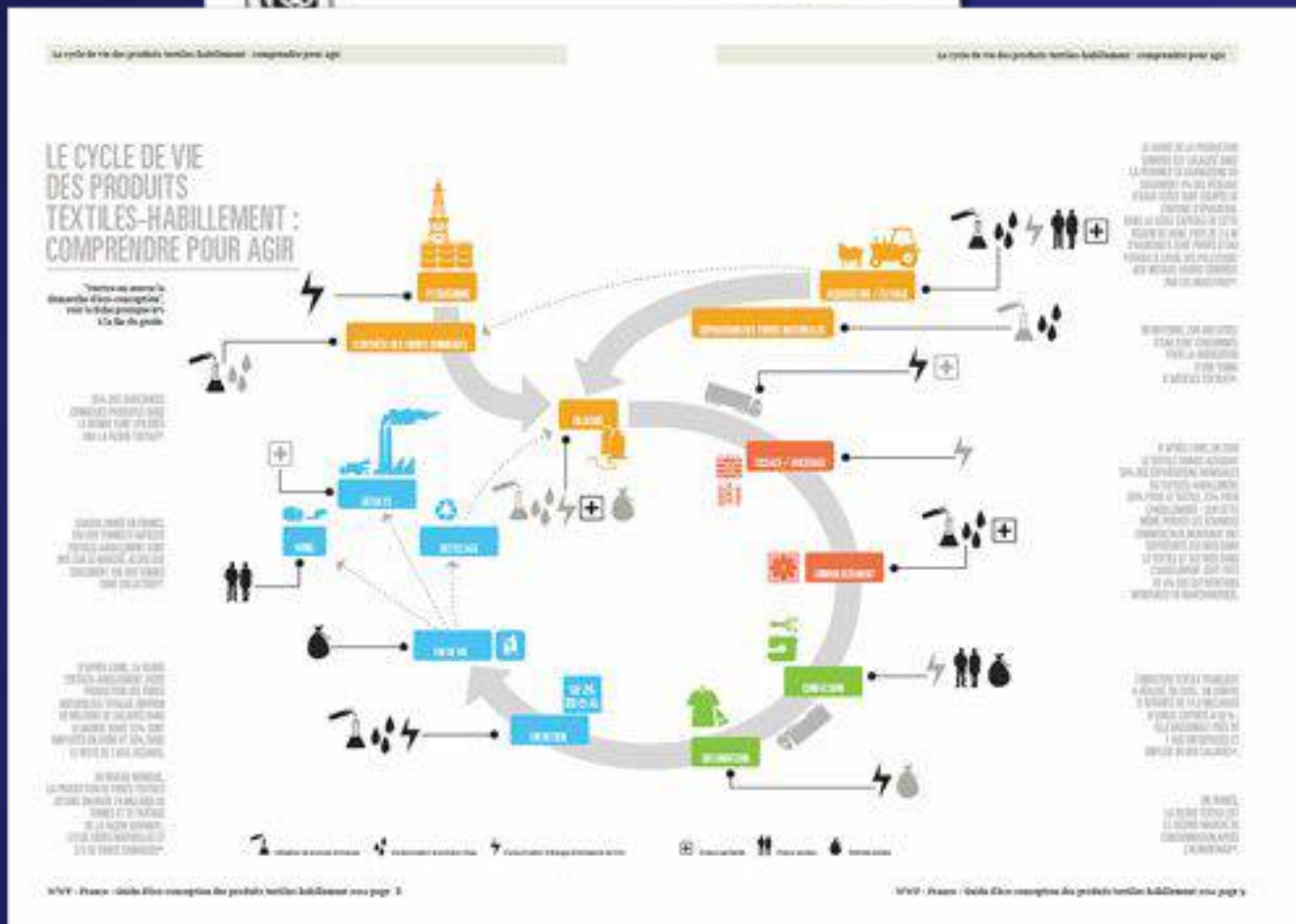
Regional priority



SPECIALIZED MAGAZINES



ECO-CONSCIOUS VOICES are getting louder and louder



NIKE INNOVATES ITS APPROACH TO MATERIALS

Nike Environmentally
Preferred Materials (EPMs)

NIKE
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GREENPEACE Italia

1 Settembre 2011



Adidas con Nike e Puma
per un futuro toxic-free.
Grazie a te!

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THE FLOORING WORLD: RECYCLING AND BIO-SOURCING



One Earth.
**ZERO
FOOTPRINT.**

Open questions....

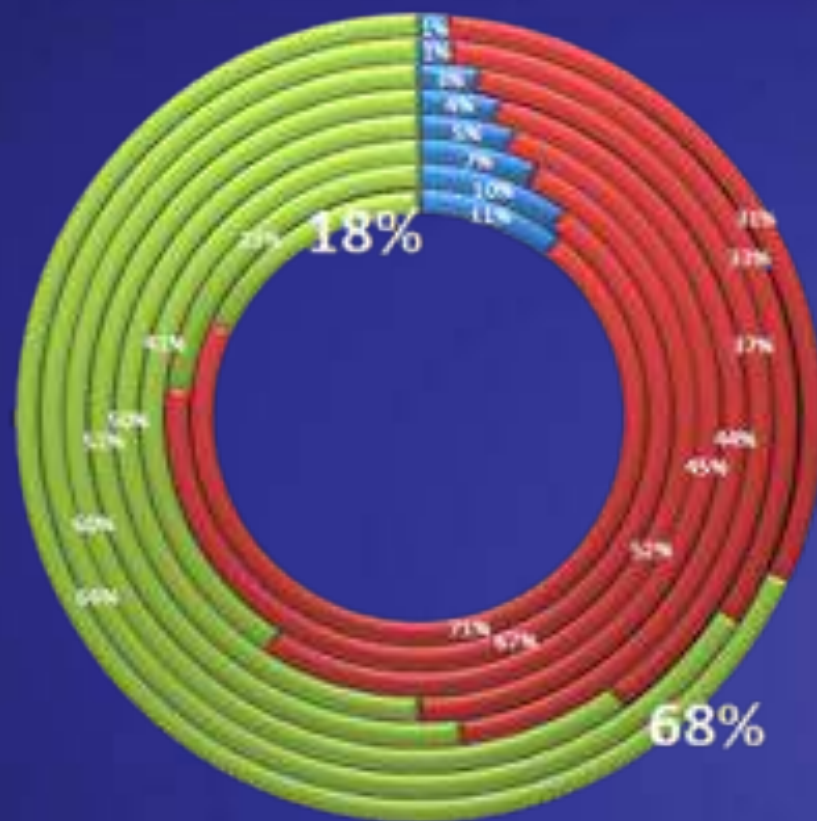


NATURAL V/S SYNTHETIC

Dal 1950 al 2020

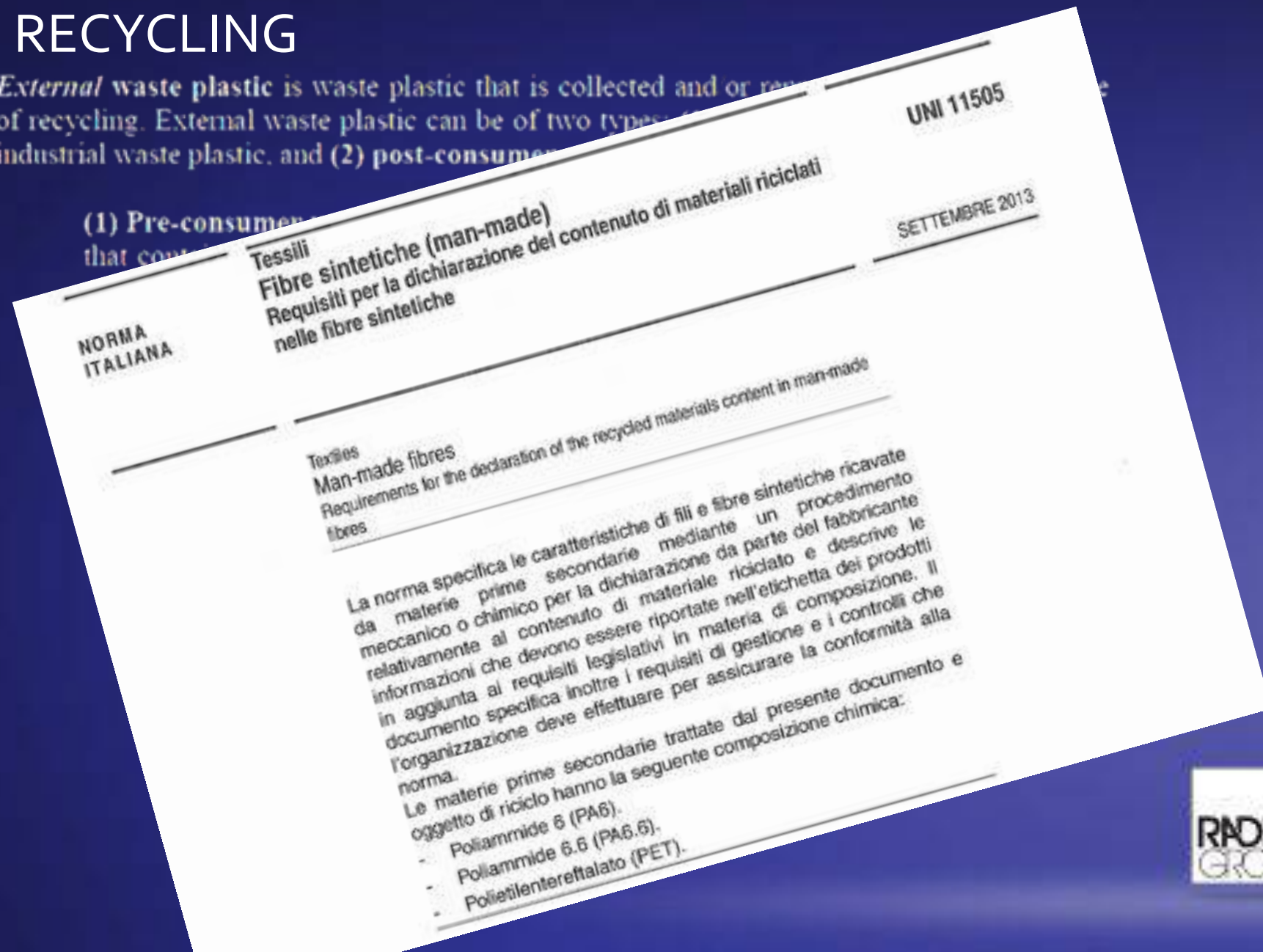
1950-60-70-80-90-00-10-20

■ lana ■ cotone ■ man made



POST INDUSTRIAL AND POST CONSUMER RECYCLING

External waste plastic is waste plastic that is collected and or recycled for the purpose of recycling. External waste plastic can be of two types: (1) pre-consumer waste plastic, and (2) post-consumer waste plastic.



BIO-POLYMERS

operation twenty⁴

RadiciGroup sustainable
development strategy for 2010-2012

Step 2



Our R&D projects focus on identifying biopolymers for the textile industry derived from natural, renewable sources, which provide performances comparable to traditional polymers.



Corn



Castor Oil Plant

20% below 1990 levels,

from renewable sources,

projected levels.

+20%



A 20% increment
in recycled materials
and biopolymers



ECODESIGN: STIMULATING INNOVATION

For Ecodesign means the approach to the design of a product considering the impact on the environment throughout their life cycle.



ECO LABELS AND ENVIRONMENTAL REGULATIONS



Category
Guidance

EPD[®]
GREEN YARDSTICK

**RADICI
GROUP**

GRI : A SYSTEM STANDARD FOR SUSTAINABILITY



Report Application Level		C	C+	B	B+	A	A+
Standard Disclosures	G3 Profile Disclosures Output	Report on: 1.1 2.1-2.10 3.1-3.8, 3.10-3.12 4.1-4.4, 4.14-4.15		Report on all criteria listed for Level C plus: 1.2 3.9, 3.13 4.5-4.13, 4.16-4.17		Same as requirement for Level B	
	G3 Management Approach Disclosures Output	Not required	Report Externally Assured	Management Approach Disclosures for each Indicator Category	Report Externally Assured	Management Approach Disclosed for each Indicator Category	Report Externally Assured
	G3 Performance Indicators & Sector Supplement Performance Indicators Output	Report on a minimum of 10 Performance Indicators, including at least one from each of: social, economic and environment		Report on a minimum of 20 Performance Indicators, at least one from each of: economic, environment, human rights, labour, society, product responsibility		Report on each core G3 and Sector Supplement indicator with due regard to the Materiality Principle by either: a) reporting on the indicator or b) explaining the reason for its omission	

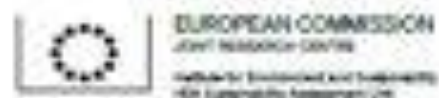
Reporting Status Key:

- We report against this indicator
- We partially report against this indicator
- We do not report against this indicator
- + More information available through relevant link

All numbers refer to pages in the RE CR Report unless otherwise indicated as AR (RE Annual Report)



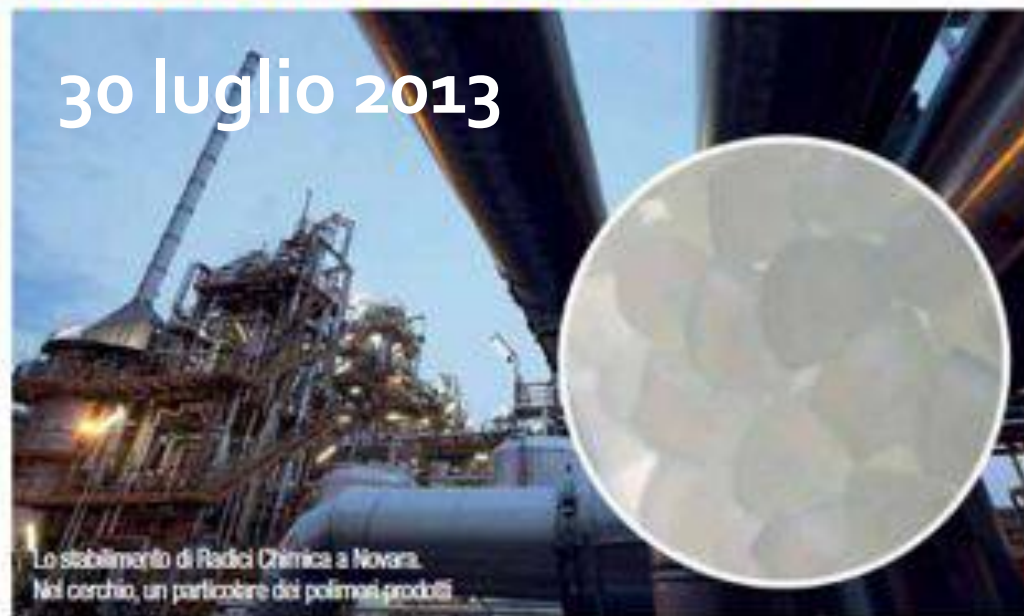
PRODUCT AND ORGANIZATION CERTIFICATES OF CONFORMITY



L'impegno nella sostenibilità di organizzazione e prodotti

**Radici Chimica: prima in Italia
a ottenere attestati OEF e PEF**

30 luglio 2013



Lo stabilimento di Radici Chimica a Novara.
Nel cerchio, un particolare dei polimeri prodotti

Radici Chimica S.p.A. di Radici Group, è la filiera produttiva della nuova tecnologia di



THANK YOU FOR YOUR ATTENTION

sustainability@radicigroup.com

