Advanced Cyclic Poly(olefin) Additives to Increase Carpet Fiber Resiliency

Pete Ludovice
School of Chemical & Biomolecular Engineering
Georgia Institute of Technology
Atlanta, Georgia U.S.A.
Erythro di-isotactic poly(norbornene)

\[ \text{Intensity} \]

\[ 2\theta \text{ (degrees)} \]

- **PNB Expt.**
- **PNB Model 1 chain N=200**
- **PNB Model 4 chains N=30**
- **PNB-co-PE**

(a) (b)
Simplified Theory

TIME = MONEY
Carpet Recycling – It’s not just for breakfast anymore

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Carpet Fiber Comparison

- polyester
- poly(propylene) or poly(olefin)
- Nylon
- wool

fiber performance in improving your marriage
Know Your Fibers

- Poly(propylene terephthalate) or poly(trimethyl terephthalate) PTT or Corterra®.
- Kinked conformation that helps fibers spring back.
- This is a fiber you need to know well.
Improved PR for CARE

- Thanks to CARE for all their recycling efforts
- Look to their logo for talk motivation...
- Could generate more interest if logo was customized
- For example, the logo for New York, north Jersey or south Boston
  - Chicago logo
  - California logo
California Roll

Nori Sushi Variety

California Highway Variety
Recycling Ideas

- Hair pieces
- Dog Food
- Human Food
No bad chemicals just bad chemical names

- Whole milk
- Sucrose
- Cream
- nonfat milk solids
- corn syrup solids
- mono and diglycerides
- guar gum
- imitation vanilla flavor
- carrageenan
- cellulose gum
- vitamin A palmitate
More Recycling Ideas

- Holiday Decorations

- Latex backing has great recycling potential
Need some aggressive marketing

NIKE
JUST DO IT

Energizer
It keeps going and going and going...

Chevy Truck
Like a rock.

KFC
Finger-lickin' good.

Recycled Carpet
because we CARE

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Carpet Recycling Image
Process Industries in Georgia
Process Industries in Georgia

- Fastest Growing Process Industry in Georgia
- Textile & Carpet
- Other
- Agriculture
- Pulp & Paper
Process Industries in Georgia

- Agriculture
- Textile & Carpet
- Pulp & Paper
- "Sweet Tea"
- Other
Sweet Tea – The Yankee Process

SUGAR

ICED TEA
Sweet Tea – The Georgia Process

Glucose Isomerase Packed Bed

High Fructose Corn Syrup

TEA

Cl\(_2\) (g)

ADDITIVES

ADM Corn Syrup Pipeline

Potassium Nitrate epinephrine

School of Chemical & Biomolecular Engineering
Try the organized approach

Prof. Martha Gallivan, Vice Chair
AIChE Session 168
Applications of SPC/TQC/Six Sigma
Six Sigma Session

Nobody told us academics the BLACK BELT was just a title!
Six Sigma Session

Speakers going past the allotted time did not expect a martial arts solution
Spice up the CARE web site

Six Sigma Black Belts Gone Wild!
Reverse Recycling

Polyester Beer Bottles → Polyester Carpet
Carpet Recycling is Evolutionary

NOT IN COBB COUNTY!!!!!!
NERDS
NOT JUST FUNNY-Looking ANYMORE

www.drludicrous.com