

Introduction – the case

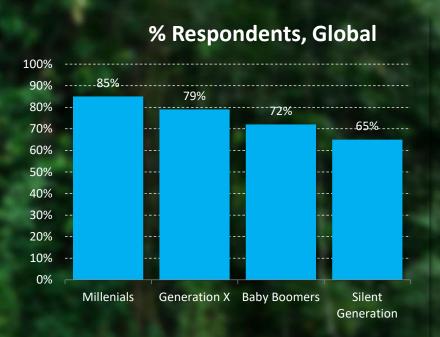
Sustainability is becoming increasingly relevant and is pushing agencies and companies to establish challenging goals.

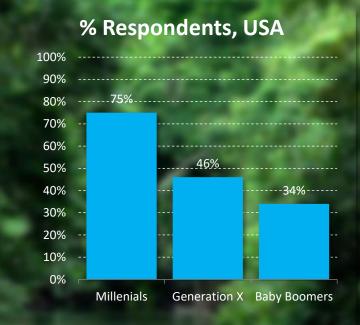
Achieving these goals might come as a new opportunity for PVC compounds, especially as primary bio-based plasticizers are developed.

Dacarto, a well-established compounder in Brazil, envisioned the opportunity and developed a new product line with a strong sustainable identity: *dgreen*

The product line dgreen improved Dacarto's bottom line and ultimately benefited the whole supply chain.

Sustainability is becoming increasingly relevant...





"ALMOST HALF OF THE GLOBAL CONSUMERS INTERVIEWED SAID THAT THEY WOULD ABANDON A BRAND TO PURCHASE MORE SUSTAINABLE PRODUCTS"

Respondents that said it was "extremely" or "very" important for the companies to implement programs to improve the environment.

Respondents that would "definitely" or "likely" change their purchasing habits to reduce their environmental impact

...and is pushing agencies and companies to establish challenging goals.

Initiatives

 UN: Green Chemistry and Chemical Engineering initiative

Europe: Green Deal

USA: Green Buildings







- Certification and labels for sustainable products
 - Growing focus on carbon footprint and renewables















 Companies seeking carbon neutrality with clear, measurable goals







www.ecolabelindex.com/ecolabels

Achieving these goals might come as a new opportunity for PVC...

- Challenges
 - Single-use plastics
 - Complex recyclability
 - Fossil origin

Disposable Plastics, USA (Mton/yr)



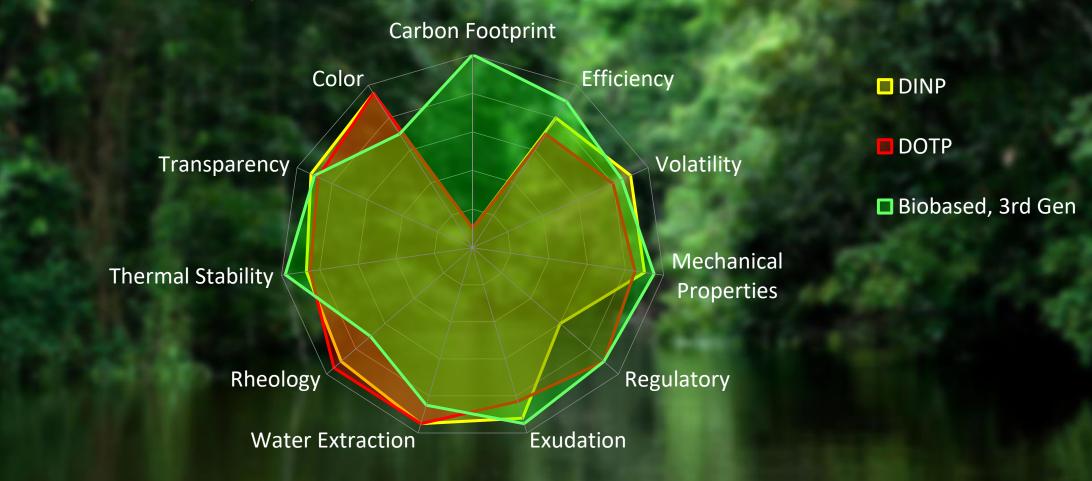
Source: https://ihsmarkit.com/

PVC – from villain to hero

- Mostly durable applications
- Greater opportunity for recycling
- Composition: 57% from salt (renewable), 43% fossil.

Increased renewables opportunities with bio-based plasticizers

...especially as primary bio-based plasticizers are developed.



Dacarto, a well-established compounder in Brazil,...

DACARTO)



TRADITION AND QUALITY

IN THE MANUFACTURE OF PVC COMPOUNDS, MASTERBATCHES AND POLYOLEFIN SPECIALTIES.

With over half a century of history, Dacarto supplies quality raw materials for the manufacturing of a wide array of plastic final products.

FOUNDED IN 1968

CURRENT HEADQUARTERS BUILT IN SÃO PAULO IN **1974**

BAHIA UNIT INAUGURATED IN 1986

FORMED JOINT VENTURE WITH BELGIAN SOLVAY S/A IN 2000 TO FORM DACARTO BENVIC

EXANDED AND MODERNIZED MAIN PLANT IN 2012-2016

FULLY CONTROLLED BY THE FOUNDING FAMILIES IN **2017**

IN **2023**, DACARTO COMPLETES 55 YEARS OF HISTORY



Simões Filho/BA



Osasco/SP

...envisioned the opportunity...

- Challenge:
 - Multi-national Wire & Cable customer
 - Requirements
 - No phthalates
 - Performance
 - Best cost/performance
 - 6-month approval process

- Opportunity:
 - Material performance (bio-based 3rd generation)
 - Adequate cost
 - Bio-based claim
 - Biopreferred® certification (44% to 54% bio content)
 - Growth of sustainability demand
 - Be the **first** in the market

- ☑ Buyer utility (technical fit)
- Attractive price
- ☑ Marketing differentiation
- **☑** Credibility
- ☑ Market demand
- ☑ No competition

...and developed a new product line with a strong sustainable identity: dgreen.

- New customers interested in bio-content
- Basic technical and marketing offering prepared in collaboration with supplier
- BioPreferred® certification submitted
- Approval process initiated
- Internal multi-functional group created
- Advertising agency hired
- dgreen project is launched



Oct/2020 Formulation approved at Dacarto August/2022 Project kickoff October/2022
First products to get
BioPreferred®
certification (W&C
and Shoes)

March/2023

dgreen launched at

FIMEC/2023

in Novo

Hamburgo/RS

May/2023
Hose
compounds
certification

September/2023
Continuous
implementation of
new products:
140 items

The product line dyreen improved Dacarto's bottom line...

- Period between Mar/23 and Oct/23:
 - Dgreen line sold to ~50 customers (Shoes/Hoses/Wire & Cable)
 - Sales volume increase: 500 Mtons
 - New accounts: ~25
 - Number of new products: ~6% of total product portfolio
 - No significant fixed costs increases
 - Little investment

- Qualitative improvements:
 - Increased account penetration: estimates as high as 50% increased share in specific customers, considering all products)
 - Improved company brand and image perception
 - Better team motivation







... and ultimately benefited the whole supply

chain.

"Dacarto's initiative was one of the best things to promote PVC in recent years" (resin supplier)

- Raw material suppliers' volume increase
- Customers' volume and margin increase
- Opportunity to show innovation
- Positive press coverage
- Improved perception of PVC (and even plastics in general)

"The dgreen product line shows Dacarto's commitment in offering ever more sustainable solutions to their customers. It's a business strategy that takes respect to the environment, focused not only in the business, but also in the future." (shoes customer)

"We missed the boat on this one. Now we'll have to play catch up" (competitor)

"I never new plastic could actually help the environment" (consumer)

"Very important action, as it broadens the customer base, and facilitates the expansion to international markets, adding value to its products" (business partner)

