SABIC’S CERTIFIED RENEWABLE POLYMERS, A TRUCIRCLE™ INITIATIVE

BIOPLASTIC CONFERENCE 2020 - DK
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Bart Van Hoof
Global Marketing Manager
SABIC AT-A-GLANCE

1976
Company established

33,000
Employees around the world

50
Countries of operations

3rd
Largest global chemical company*

122nd
Largest public company in the world*

3.96
US$ bn
Estimated Brand Value**

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US$ bn
Estimated Brand Value**

85
US$ bn
Total assets

5.7
US$ bn
Net income

45
US$ bn
Annual revenue

≈ 150
New products each year

11,738
Global patent filings

64
World-class plants worldwide

*Forbes 2019  **Brand Finance, 2019
TRUCIRCLE™: COMPLEMENTARY PILLARS TOWARDS CIRCULAR APPROACH

TRUCIRCLE™:
SABIC’s new portfolio and services for circular solutions

DESIGN FOR RECYCLABILITY
Tailor-made resins for the development of products that have improved recyclability characteristics

MECHANICALLY RECYCLED PRODUCTS
Compounds with high recycled content and booster resins for recyclate containing compounds that improve processability and end-use properties

CERTIFIED CIRCULAR PRODUCTS
Virgin resins and chemicals from difficult to recycle plastic waste streams produced through feedstock recycling

CERTIFIED RENEWABLE PRODUCTS
Resins and chemicals from bio-based feedstock that is not in competition with the food chain and help to mitigate climate change

THE SABIC AMBITION IS TO DEVELOP THESE CIRCULAR SOLUTIONS BY WORKING SIDE BY SIDE WITH BRAND OWNERS AND OUR DIRECT CUSTOMERS
ACCEPTANCE OF THE MASS BALANCE CONCEPT IS A VITAL STEP

MASS BALANCE

PRODUCTION IN A MORE SUSTAINABLE WAY
COMBINING ALTERNATIVE FEEDSTOCK WITH
FOSSIL-BASED FEEDSTOCK

MASS BALANCE IS A SYSTEM WHERE THERE IS A CERTIFIED BALANCE BETWEEN THE AMOUNT OF ‘INPUT MATERIAL’ INTO A PROCESS AND THE AMOUNT OF ‘OUTPUT MATERIAL’ FROM THE PROCESS
Alternative feedstock might not be physically traceable throughout the production processes when used together with non-renewable feedstock. Application of Mass Balance to attribute the alternative feedstock to an end-product in a fully transparent and auditable way.
WHY IS IT THIS GOOD?

VALUE OFFER FOR SABIC’S CERTIFIED BIO-BASED RENEWABLE POLYMERS

• Replacing fossil based feedstock
• No compromise on product packaging safety
• 2nd generation renewable feedstock, not in competition with the food chain
• Identical product specifications to our current SABIC PE and PP portfolio (first renewable PP in the market)
• No modifications to production processes down-stream, hence no investments are required anywhere in the value chain
• Feedstock source has a lower carbon footprint compared to fossil alternative
• Recyclable
SABIC’S CERTIFIED RENEWABLE SOLUTIONS

POLYOLEFIN

Big portfolio of certified renewable PE and PP resins, mainly introduced in critical Food & Beverage applications.

POLYCARBONATE

SABIC is the first in the industry to launch PolyCarbonate based on second-generation certified renewable feedstock (*)

Application focus:
• Appliances
• Automotive

CHEMICALS

SABIC’s certified renewable ethylene
• enabled the debut of certified sustainable acrylonitrile by AnQore on the global market

• supported Vynova to produce a range of bio-attributed PVC resins

(*) Only a part of the feedstock used in polycarbonate production is from renewable feedstock.
SABIC’S COMMITMENTS

1. DRIVING PERFORMANCE FOR CUSTOMERS
We push the limits of quality, efficiency, and performance to drive customer success.

2. ENSURING LONG TERM DEPENDABILITY
We bring preparation and judgement to help lasting reliability.

3. BUILDING VALUABLE RELATIONSHIPS
We collaborate closely to create opportunities for sustainable growth.
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SABIC’S SUSTAINABILITY YOUTUBE CHANNEL

SABIC TRUCIRCLE
- short introduction to TRUCIRCLE initiatives
  https://www.youtube.com/watch?v=AICUCmGrmg

SABIC’S VIRGIN POLYMERS FROM MIXED PLASTIC WASTE
- movie explaining certified circular polymers as SABIC’s TRUCIRCLE™ solution
  https://www.youtube.com/watch?v=qf_4jxcP2sY

SABIC – MASS BALANCE METHOD
- animation movie explaining mass balance chain of custody
  https://www.youtube.com/watch?v=-imvDD6i6Lo

SABIC’S CERTIFIED CIRCULAR PRODUCTS THROUGH FEEDSTOCK RECYCLING
- attractor film from booth at K-show
  https://www.youtube.com/watch?v=REamRj4xXPs

SABIC’S CERTIFIED CIRCULAR PRODUCTS FROM MIXED PLASTIC WASTE
- 2D animation movie explaining chemical/feedstock recycling
  https://www.youtube.com/watch?v=WbEh2NtLrb0