

The future of Sustainable Solutions



plastribution
experts in thermoplastics.

Seminar
23 February 2022

Mischa Andriessen
Patrick Ottens

The future of Sustainable Solutions



Who is Ducor
and what is
Co-Creation

The future of Sustainable Solutions
from
Today
to
Tomorrow
and into
The Future

Let's work together

The most flexible PP Plant in Europe

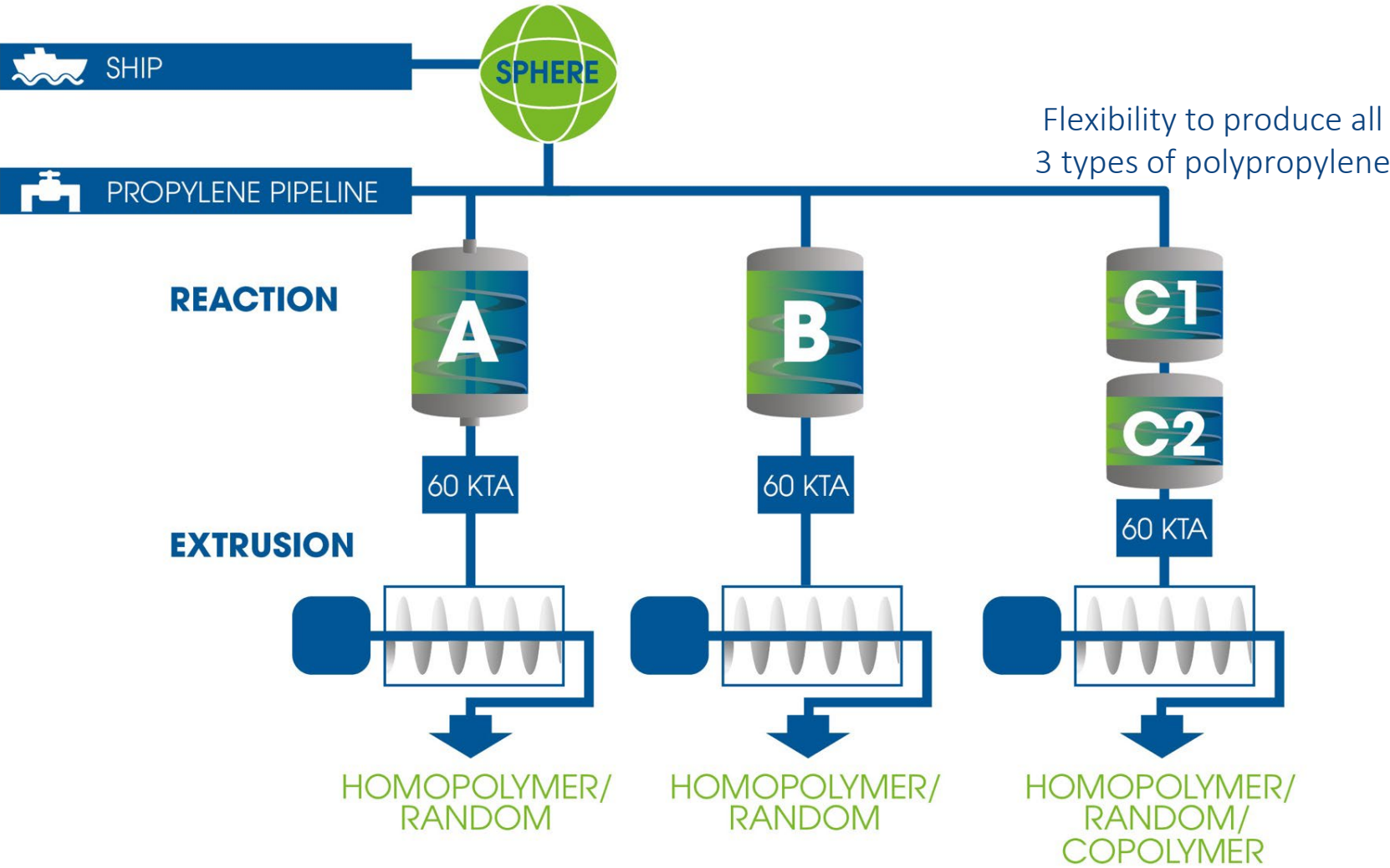


Ducor Petrochemicals
located
in the Port of Rotterdam

Annual production of
180kT polypropylene
using a
Novolen gas phase technology
produced on
3 lines
Homo, Copo & Random

Owned 100% by
Carmel Olefins LTD.

Production @ Ducor



Partnership @ Ducor Petrochemicals



MID SIZED
POLYOLEFIN PRODUCER



EXTENSIVE
PRODUCT PORTFOLIO



SIGNIFICANT
R&D FORCE



STRATEGIC LOCATION
IN NORTH WEST-EUROPE



FLEXIBLE AND CUSTOMER
ORIENTED SUPPLIER



CUSTOM
MADE PRODUCTS

LET'S TALK YOUR
PROJECT THROUGH

WE ASSIST
IN CO-CREATION

INNOVATION OUT
IN THE MARKETPLACE
IS WHAT COUNTS



Recycled PP

In Partnership with 360 Group
creating
Customised Solutions
Including
Recycled Content

Transparent & Coloured

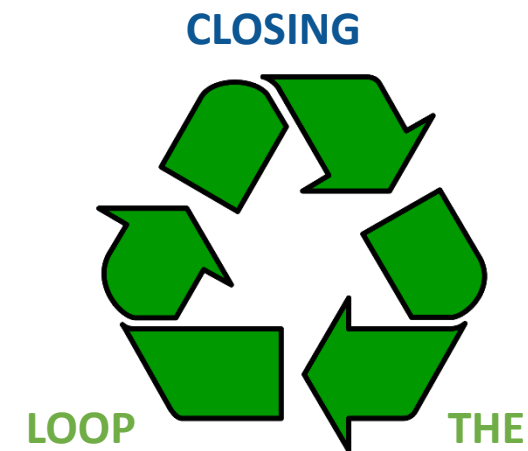
Ducor Petrochemicals

Sustainable Solutions - Today

WE ARE COMMITTED
TO

**CLOSING THE
MATERIAL LOOP**

TOGETHER



Dutch company
since 2013

KIWA certified

custom made blends
with recycled content



KIWA certified
plastic regranulate



Increasing demand for
recycled polymers



extensive
international
network



Track Record
Strong reputation
and experience



'The Green Deal' is
a game changer



Circular
Sustainable
solutions



Flexibility in
realization of
sustainable, zero
waste solutions



Motivated team
with extensive and
specific knowledge



Approx. 45.000 MT
Blend capacity

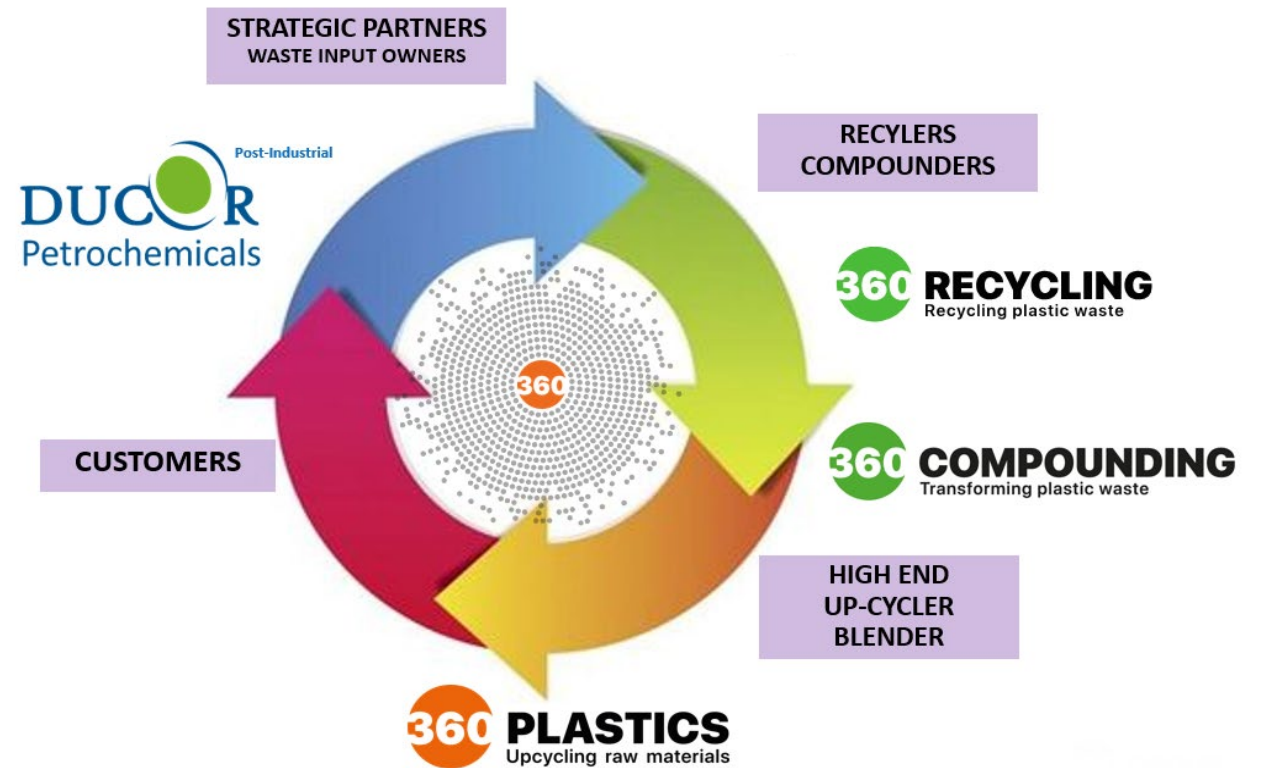
Ducor & 360Group

partnership

full value chain
partnership

CUSTOM MADE products

Using RECYCLED
CONTENT



KIWA Recycling CERTIFICATE

available on all
material waste streams

how can we help?



COVENANT

Kiwa Nederland B.V.
St Winston Churchillaan 273
PO Box 70
2260 AB RIJSWIJK
Tel: 088 998 44 00
Fax: 088 998 44 20
info@kiwa.nl
www.kiwa.nl

Covenant
K106239/01
issued 2020-09-15
Replaces -
Page 1 of 7



Upcycling of PP raw waste material* to 100% recycle

*further clarified in 3.3

STATEMENT BY KIWA

With this Covenant, in accordance with the Kiwa Regulations for Product Certification, Kiwa declares that there is legitimate confidence that the products supplied by

360 Plastics

that are specified in this Covenant and marked with the Kiwa® certification mark, comply on delivery with the Kiwa Covenant handbook K15013, dated January 2016

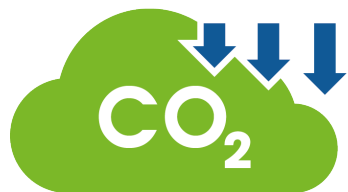
Ron Scheepers
Kiwa

Publication of the certificate is allowed.
advice: consult www.kiwa.nl in order to ensure that this certificate is valid.

Supplier
360 Plastics
Clara Zekirweg 2
5032 ML Tilburg
Tel: +31 1350 015 60
rnb@360group.nl

Bazan Sustainability Strategy

Polypropylene based on
Renewable & Sustainable Feedstock
certified through
ISCC+ & Ducor LCA
UBQ compounds



CREATING A LOW CARBON ECONOMY: A THREE-PILLAR STRATEGY

FIRST PILLAR

GREEN HYDROGEN & ALTERNATIVE FUELS



Build infrastructure for
green hydrogen market &
alternative fuels ecosystem



Create strategic alliances
with companies in the
transport sector



Expand hydrogen production
& deploy fueling stations

SECOND PILLAR

ADVANCED POLYMERS



Invest in mechanical &
chemical recycling

15%

Sustainable polymer
production by 2025

25%

Sustainable polymer
production by 2030

THIRD PILLAR

FUELS & INFRASTRUCTURE



Integration of latest production
technology to
reduce our carbon footprint



While taking advantage of
logistic infrastructure
& advanced trading capabilities

Sustainable Solutions - Tomorrow

Invest in Mechanical
& Chemical Recycling

15% Sustainable Polymer
Production by 2025

25% Sustainable Polymer
Production by 2030

Second pillar: Advanced polymers

- ✓ Lead mechanical & chemical recycling of plastic and biopolymers in Israel
- ✓ Expand this activity within Western Europe, through Ducor Petrochemicals.
- ✓ Invest in innovative technologies in the fields of chemical recycling and biopolymers.
- ✓ UBQ

Sustainable Solutions - Tomorrow

Carbon Footprint reduction

Polypropylene based on

Renewable & Sustainable Feedstock

certified through

ISCC+ & Ducor LCA

Mass - Balance

LCA Study with Dekra

- ✓ Starting Q2 2022
- ✓ Report expected Q4 2022

ISCC+ Certification

- ✓ Starting Q3 2022
- ✓ ISCC+ certification expected Q4 2022

Supply of sustainable Propylene

- ✓ Partnership with key Ducor suppliers
- ✓ ISCC+

Polypropylene produced from Renewable feedstocks

- ✓ ISCC+ certified
- ✓ Mass Balance
- ✓ Market study taking place
- ✓ Full Ducor Product Portfolio



Sustainable Solutions - Tomorrow

Renewable Feedstock

In partnership with
current Ducor Suppliers

Value Chain
Partnership

Ducor Supply Partners:

- ✓ Renewable C3
- ✓ Mass Balance

Value Chain Partnership

- ✓ End user requirements
- ✓ Applications
- ✓ Volumes
- ✓ Timeline
- ✓ Value

Renewable Feedstock Availability:

- ✓ From Q1 2023
- ✓ All based on ISCC+ mass balance

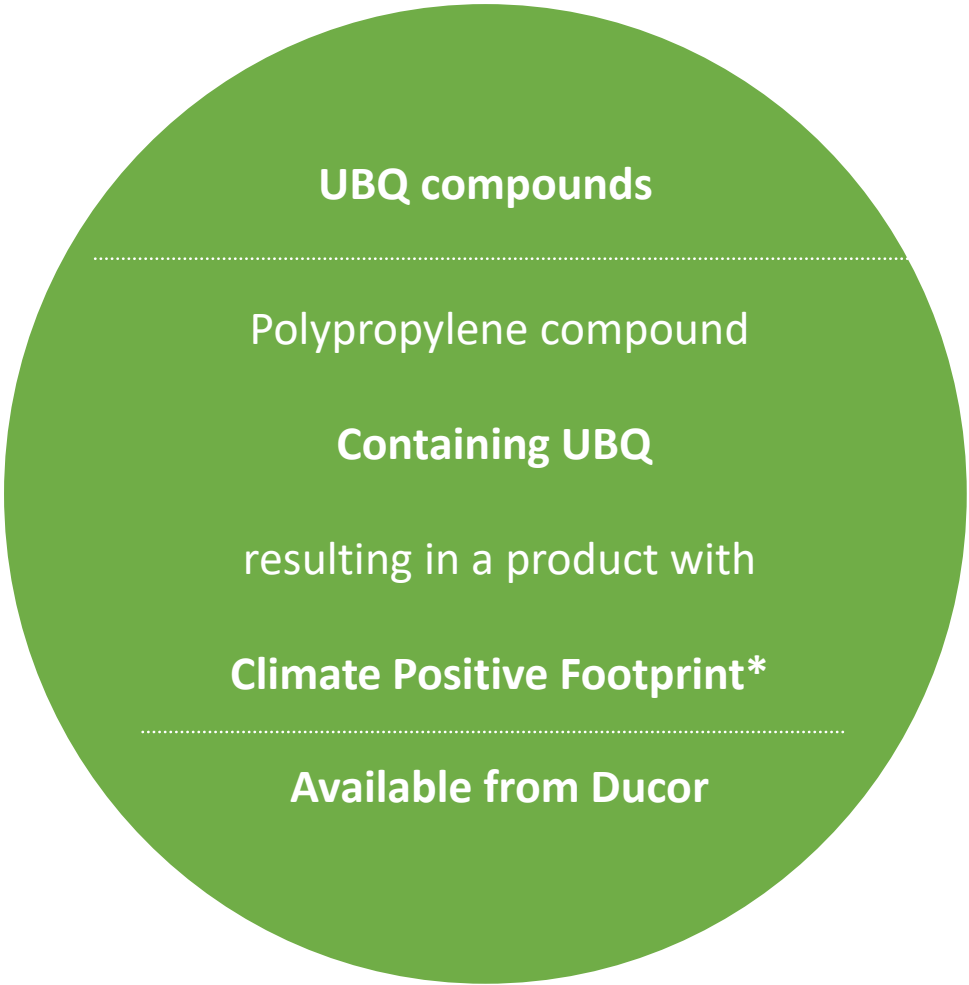


to resource

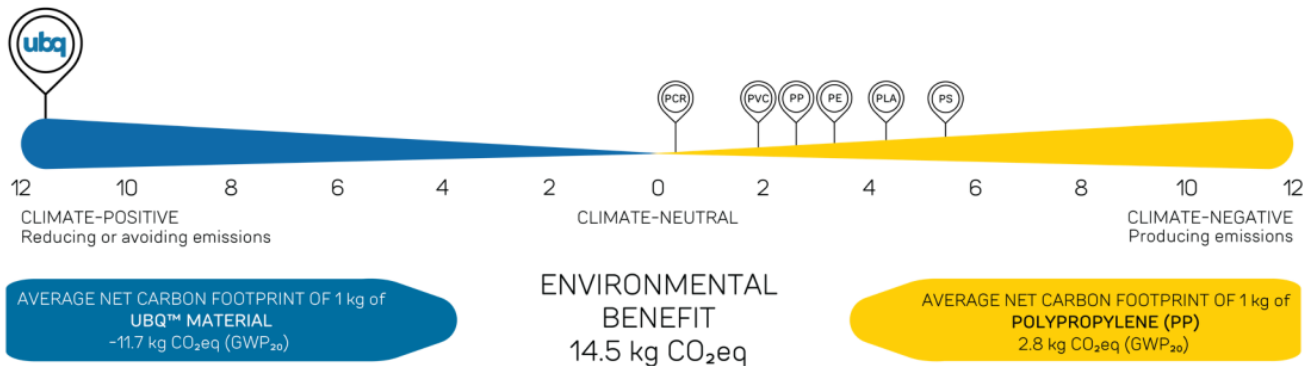
from waste



Sustainable Solutions - Tomorrow



- ✓ PP with a lower CO2 footprint
- ✓ Waste reduction
- ✓ Material savings



* based on GWP20

Sustainable Solutions - Tomorrow



- ✓ Automotive
- ✓ Building & Construction
- ✓ Infrastructure
- ✓ Packaging

Available NOW

DuCycleQ
Polypropylene compound

With 20% UBQ inside

Available from Ducor

Sustainable Solutions - Tomorrow

Questionnaire

What does your customer **need**
What **sustainable products** are
you looking for?

LET'S WORK TOGETHER

Ducor customer survey

- ✓ All customers
- ✓ Full sustainability portfolio

Your feedback is key

- ✓ Sustainable Co-Creation



Circularity & Sustainability

Full Sustainable product portfolio

Mechanically Recycled PP
Renewable Feedstock
Chemical Recycling

Partnership is what counts

Updates

DuCare

Medical Polypropylene

ISO 13485

DuCare: Medical Polypropylene

- ✓ Polypropylene for medical applications
- ✓ Market & Application definition in progress



The future of Sustainable Solutions

custom Made **Blends**
with **recycled content**

carbon neutral PP
with **UBQ** inside

PP from renewable
feedstock – **ISCC+**





SUSTAINABLE SOLUTIONS LONG-TERM PARTNERSHIPS

How can
we help?