

Transforming the Masterbatch Industry: Experience Sun Chemical's Sustainability

Experience. Transformation.

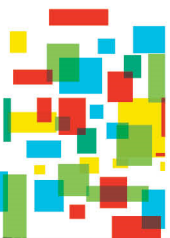


SunChemical[®]

a member of the DIC group



Color & Comfort



The importance of sustainable masterbatches

Sustainability is no longer an option; it's a necessity. As the world gravitates towards more eco-conscious practices, every industry is called upon to do its part, and the masterbatch sector is no exception.

Masterbatches serve as the cornerstone of many industries, influencing everything from packaging aesthetics to product functionality.

Masterbatches are the cornerstone

Plastic waste is growing. In 2019, around 400 million tons of plastic waste was produced.

~ 400 million tons

Today's problem: Only 10% of recycled post-consumer and bio-based/bio-attributed plastics account for the global plastics production.

~ 10 %

Sun Chemical is dedicated to making a positive difference by offering sustainable masterbatch solutions.

Our sustainable commitment

At Sun Chemical, sustainability is more than a concept – it's a commitment.

As a member of the DIC Group, Sun Chemical has publicly stated sustainability goals encompassed in DIC Vision 2030. These goals recognize that climate change is a social imperative and that our industry has a part to play in achieving a future where the worst effects of climate change are mitigated. Therefore, as a masterbatch producer, we are committed to offer tailored customer solutions that help them reduce their environmental impact without compromising on quality or performance. Internally, we are dedicated to improving our eco-efficiency, with clearly defined goals and policies.

Your journey begins with us

We invite you to journey towards a more sustainable masterbatch industry with Sun Chemical.

Sustainability at Sun Chemical is broadly defined as the design of products or processes that reduce environmental impacts to mitigate climate change conserve virgin resources and minimize the accumulation of waste as compared to the products or procedures they replace. Therefore, Sun Chemical's commitment to sustainability extends to our masterbatch division. Our sustainable masterbatches are designed to deliver high performance without compromising environmental responsibility. You take a decisive step towards a greener future by choosing our eco-friendly masterbatches. Your transformation begins with us.

Our sustainable solutions for conventional polymers

Our goal: CO₂ savings

Option 1: Leverage source bio-based biopolymers

Option 2: Leverage life cycle chemical/mechanical recycling

Option 3: Leverage disposal biodegradable polymers

Made of natural resources

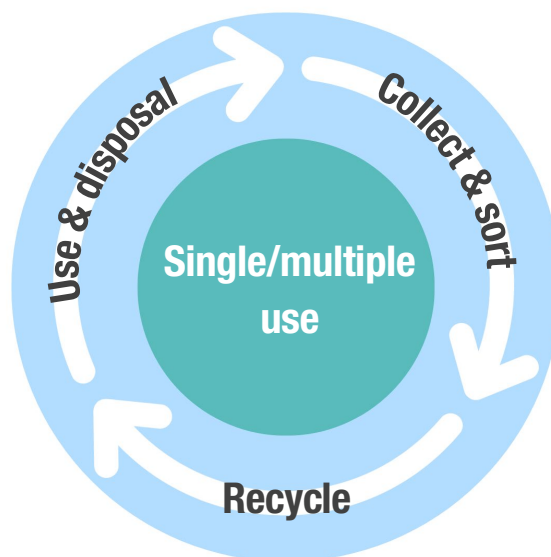
Recycling

Biodegradable polymers

Masterbatch:
Bio-based Sicolen® ECO
Bio-based Sicoversal® ECO

Masterbatch:
Sicolen® R

Masterbatch:
Sicoversal® B



Do you want to replace your fossil-based masterbatch with a bio-based masterbatch?

Then our Sicolen[®] ECO masterbatch is precisely what you need.

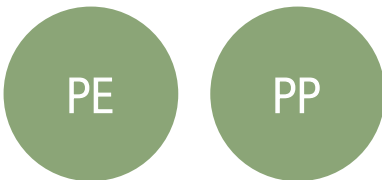
Facts

- Masterbatch for the coloration and additivation of bio-based and fossil-based polyolefins
- The carrier of our masterbatch consists of plant-based polyethylene/polypropylene, which is renewable and CO₂-neutral
- Suitable for food contact

Your advantages with Sicolen[®] ECO

- Upgrades the polymer base of your products in terms of CO₂ reduction
- Simplifies and promotes compliance with legal requirements and certificates regarding bio-value for colored products
- Performs well in the recycling process
- Promotes the use of biopolymers by offering economical coloration for numerous PE & PP applications

Choose from a variety of carrier systems:



And you can choose several bright colors. Below are six examples:*



Sicolen ECO PE Red
39-274405

Sicolen ECO PE Yellow
17-274415

Sicolen ECO PE Beige
23-274425

Sicolen ECO PE Green
08-274435

Sicolen ECO PE Brown
24-274445

Sicolen ECO PE Blue
70-274455

*In addition, we offer four additive solutions

Do you want to replace your single-use masterbatch with a bio-based masterbatch for ABS or PS?

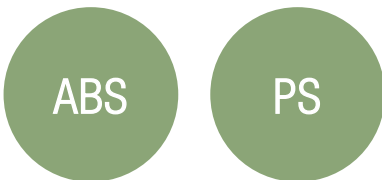
Then our Sicoversal® ECO masterbatch is precisely what you need.

- Crafted from a carrier system made of ABS or PS which utilizes raw material sources such as fatty waste and food production byproducts.
- Achieve up to 50% reduction in CO₂ footprint with our innovative Masterbatch formula compared to standard product.

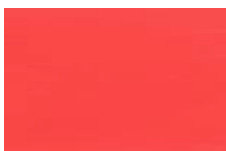


Experience the advantages:

- Upgrades the polymer base of your products, marking a significant leap towards an environmentally friendly future.
- Our products can increase the proportion of polymer materials produced from sustainable sources.
- Designed to perform optimally during recycling processes, facilitating a seamless close-loop system and encouraging recycling endeavors.
- Promotes the usage of biopolymers by providing an affordable solution for adding color to various ABS/ PS applications, thus fostering the switch to greener alternatives.

Choose from a variety of carrier systems:



Below are some examples from which you can choose to create Sicoversal colors:

					
Sicoversal ECO PS Red 39-289905	Sicoversal ECO PS Yellow 17-289885	Sicoversal ECO PS Beige 23-289895	Sicoversal ECO PS Green 08-289925	Sicoversal ECO PS Brown 24-289935	Sicoversal ECO PS Blue 70-289915

*In addition, we offer four additive solutions

Do you want to replace your single use masterbatch with a recycled masterbatch?

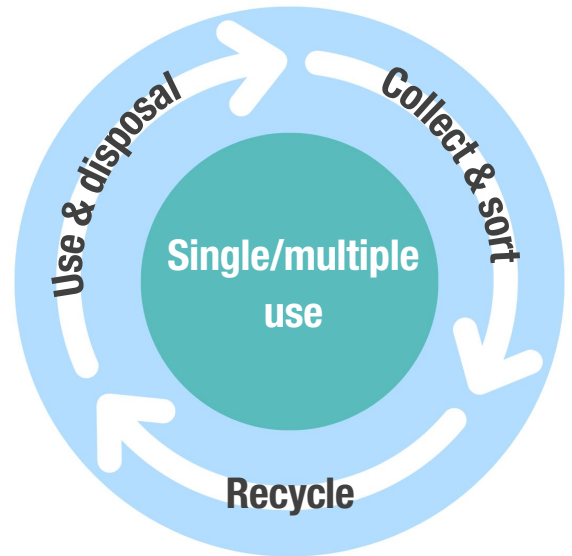
Then our Sicolen® R masterbatch is precisely what you need.

Optimized for recycling

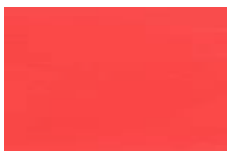
The recycling-based masterbatch Sicolen R maximizes the recycling content in the end product.

This enables a 100% reuse rate for plastics and makes it easier to comply with limits for certificates and legislation. A high recycling rate is also a relevant purchasing criterion for consumers.

Choose between various options from an existing portfolio or have a product developed tailored to your needs.



Some examples with which you can create beautiful colors:



Sicolen R Red
39-289985



Sicolen R Yellow
17-289965



Sicolen R Beige
23-289975



Sicolen R Green
08-290005



Sicolen R Brown
24-290015



Sicolen R Blue
70-289995

Do you want to replace the fossil based masterbatch with a biodegradable masterbatch to avoid incineration? Then our Sicoversal[®] B masterbatch is precisely what you need.

Why Sicoversal B?

Ideal for coloring (and additivation) of PLA copolymer blends of PLA/ PBAT. Imparts bright, homogeneously distributed colors to biopolymers and improves performance.

It meets European compost standards and contributes to a more sustainable future.

Currently, a portfolio of 12 colors is offered one additive. The shades are already certified. Further, customized colors will be gladly developed and certified on request, promoting the use of biodegradable polymers.



You can choose from the following colors:



Sicoversal B Beige
23-177705

Sicoversal B Brown
28-123025

Sicoversal B Brown
22-145975

Sicoversal B Yellow
13-281275

Sicoversal B Red
39-168775



Sicoversal B Green
89-170935

Sicoversal B Green
08-178795

Sicoversal B Green
87-168785

Sicoversal B Blue
68-272905

Sicoversal B White
00-213135

Sicoversal B Black
00-158705



*Except Sicoversal B
Beige 23-177705



*Except Sicoversal B Yellow
13-281275 and Sicoversal B
Blue 68-272905

Experience. *Transformation.*

A partner who transforms with you.

Today's environment requires more than change. It demands transformation — and a partner who's willing to transform with you. Sun Chemical, a member of the DIC group, is a leading producer of packaging and graphic solutions, color and display technologies, functional products, electronic materials, and products for the automotive and healthcare industries. Together with DIC, Sun Chemical is continuously working to promote and develop sustainable solutions to exceed customer expectations and better the world around us. With combined annual sales of more than \$8.5 billion and 22,000+ employees worldwide, the DIC Group companies support a diverse collection of global customers. As you move forward into a world of stiffer competition, faster turnarounds, more complex demands and sustainable products, count on Sun Chemical to be your partner.

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