

**Birch
Chemicals**

FORMULATING THE FUTURE™

Masterox®

MASTERBATCH GRANULE RANGE

Perfect PLASTICS

Specially formulated for maximum performance in plastics, coated fabrics and masterbatch manufacturing, the Masterox® range empowers you to improve your product quality and production output.

Created from the finest raw materials by Birch Chemicals, Masterox® Masterbatches boast high purity and high performance. Carefully formulated for a wide range of applications, Masterox® means unbeatable performance and reliable consistency.

KEY POINTS:

- Eco-friendly
- Reduces production costs
- Speeds up production time
- Global supply
- Consistent performance
- 100% formulation control

Masterox®
Free Samples
Call now
01652 686080

Innovative
formulations
equal
**world-class
results**





Maximum control

Using Masterox® Masterbatch will give you consistent quality control by reducing moisture in plastic, polymer and nylon manufacture.



Enhance recycled

Recycled plastics are notorious for containing high levels of unwanted moisture. Masterox® Masterbatch is specifically designed to remove moisture content and provide consistent production.



Reduce costs

Adding Masterox® to your mix can increase production speed and capacity, reduce revenue lost due to quality defects, and increase energy savings gained via improved product drying time.

Masterox[®] R PREMIUM

Created from ultrafine calcium oxide, Masterox[®] R Masterbatch is formulated for unbeatable production performance and consistency.

Masterox[®] R boasts industry leading moisture removal and exceptional dispersion, which improves production output and reduces cost.

IDEAL FOR

- Plastic recycling
- Compounding
- Blown film and lamination
- Blow moulding
- Injection moulding
- Wood plastic composites
- Bio plastics
- HDPE/PP pipe and profile extrusion

Compatibility	LLDPE, LDPE, HDPE and PP
CaO content	80%
Density (g/cm ³)	1.1
Processing temp.	140 – 280C
Melt flow rate	1g / 10 min (@190C, 5kgs)
Packed in	25kg bag - 1,200kg pallet

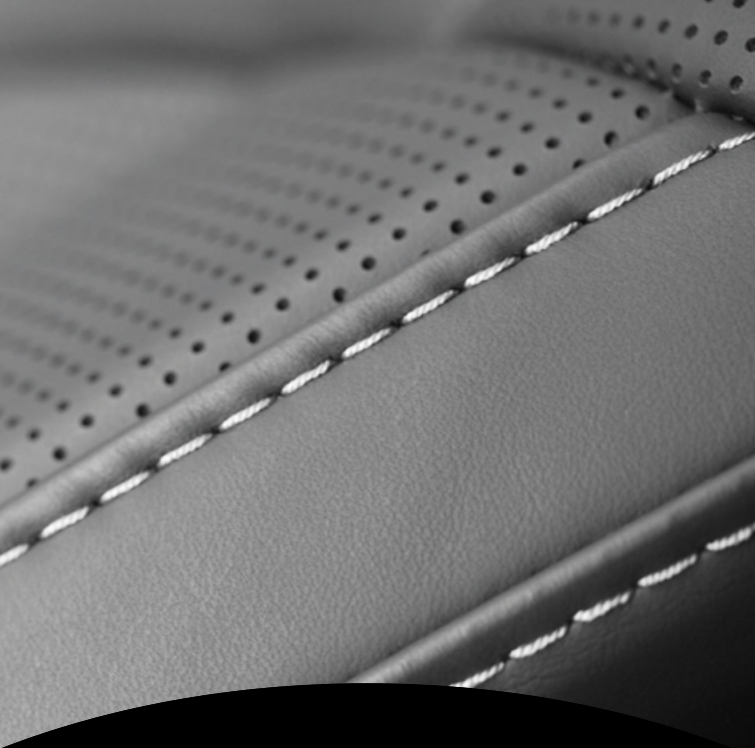


Innovative
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world-class
results

Refined for
unbeatable
performance
& consistency



PART OF THE
Singleton Birch family



Improved quality

The Masterox® R Masterbatch range is specially formulated to prevent visible extrusion breakout and surface defects, reducing specks, lumps and streaking in production caused by unwanted moisture in the finished product.

▼ **Without using Masterox®.**

Sample plastic leather held up to the light, illustrating consistent surface defects.

▼ **Using Masterox®.**

Sample plastic leather held up to the light, illustrating improved distribution and finish.

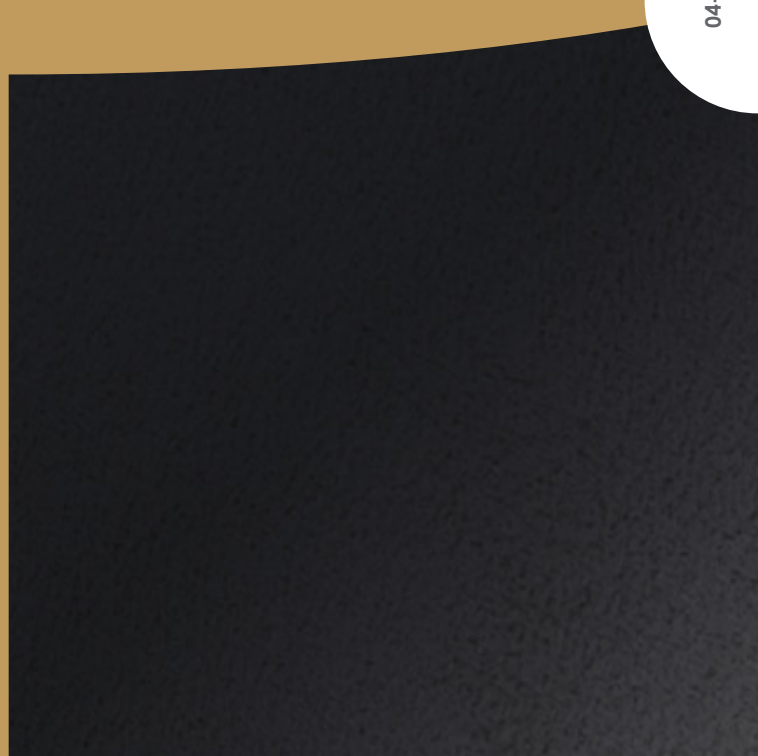


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Ultrafine consistency

High purity ultrafine calcium oxide particles (treated with dispersing agent) mean Masterox® provides a higher surface area and better dispersion. Extreme consistency you can always rely on.



Masterox[®] CARB

Created from ultrafine calcium carbonate refined for unbeatable manufacturing performance and consistency.

Masterox[®] CARB Filler Masterbatch boasts high glossiness levels, intense brightness, exceptional dispersion and enhanced production output.

IDEAL FOR

- Blown film and lamination
- PP raffia/yarn
- PP non-woven fabric
- Blow moulding
- Injection moulding
- Thermoformed sheet
- HDPE/PP pipe extrusion
- Polyester and nylon yarn

Compatibility LLDPE, LDPE HDPE or alternative version for PP

CaCO₃ content 82%

Particle size 2 microns

Density (g/cm³) 1.95

Processing temp. 140 – 280C

Melt flow rate 1-3g / 10 min (@190C, 2.16kgs)

Packed in 25kg bag - 1,350kg pallet

Moisture >0.15%



Innovative formulations
equal
world-class results

**Excellent
cost to
performance
ratio**

 **Birch
Chemicals**
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Singleton Birch family



In-house innovation

We're meticulous at each step of our research, development, manufacturing and customer service. Our state-of-the-art innovation centre is an essential part of what makes Birch Chemicals so unique.



Expert knowledge

Every one of our products has been carefully developed in-house by our own scientists. They work tirelessly to innovate and find new best-solutions for industry.



Industry-leading solutions

Birch Chemicals provides industry-leading high quality products based on decades of expertise and developed from an ethos of constant innovation.



Masterox® WHITE

Created from ultrafine rutile grade titanium dioxide produced for unbeatable performance and consistency.

Masterox® WHITE Masterbatch is light-fast with high glossiness, opacity and boasts excellent stain and weather resistance. Chemically inert and chalk free, formulated for exceptional dispersion and higher production output.

MASTEROX WHITE 50%

50% Titanium Dioxide, LLDPE carrier resin. Applications/ideal for:

- Blow moulding
- Injection moulding
- Blown film
- Pipe extrusion
- Raffia and yarn

MASTEROX WHITE 70%

70% Titanium Dioxide LLDPE carrier resin. Applications/ideal for:

- Blow moulding
- Injection moulding
- Blown film
- Pipe extrusion
- Raffia and yarn

Compatibility	LLDPE, LDPE, HDPE and PP
TiO2 content	50% and 70%
Density (g/cm3)	1.05
Processing temp.	140 – 280C
Melt flow rate	0.5g/10mins (190oC/2.16kg)
Packed in	25kg bag - 1,350kg pallet
Light Fastness	7



Innovative formulations
equal
world-class results

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Free Samples
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Eco-friendly
plus
pure natural material



PART OF THE
Singleton Birch family



Immediate despatch and exceptional delivery service

Due to our worldwide distribution network we're able to offer immediate despatch for on-time delivery. We go 'the extra mile' to make sure you get what you want when you want it. Our reputation for outstanding customer service speaks for itself.

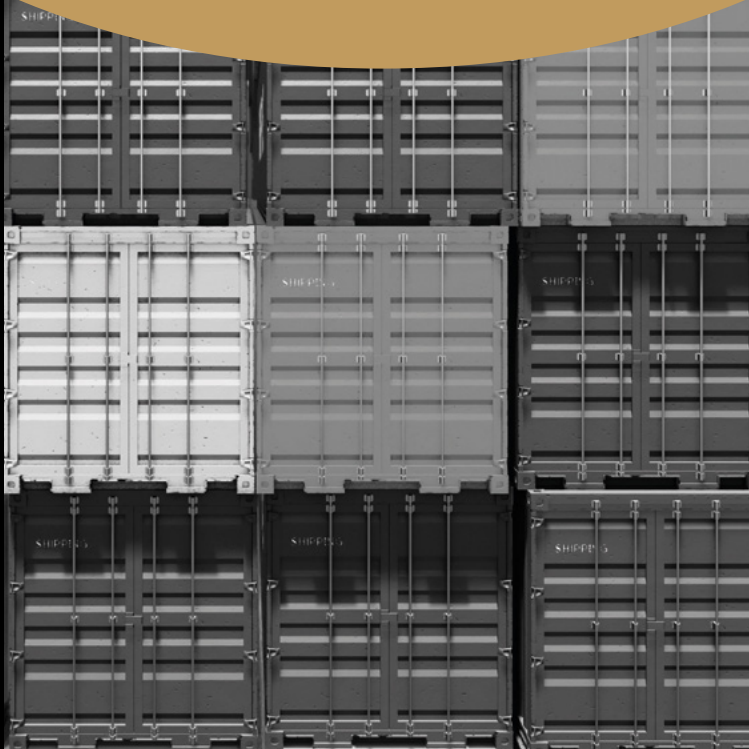


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Over 200 years in the making

Birch Chemicals (part of the Singleton Birch group in operation since 1815) was originally founded in 2000, as Innovo, and then rebranded in 2018. Since September 2022 it has been proud to be part of the Mississippi Lime Company's family.



Our social values

Our social values shape everything we do, and we take sustainability seriously. We are leading the way in carbon negative energy generation and zero carbon raw materials and our safety performance has won many awards.

Masterox[®] BLACK

Created from ultrafine carbon black produced and refined for unbeatable masterbatch performance and consistency.

Masterox[®] BLACK boasts high concentration levels, intense blackness and brightness, exceptional dispersion for increased production output.

MASTEROX BLACK 20%

20% Carbon black concentration in LLDPE carrier resin. Applications/ideal for:

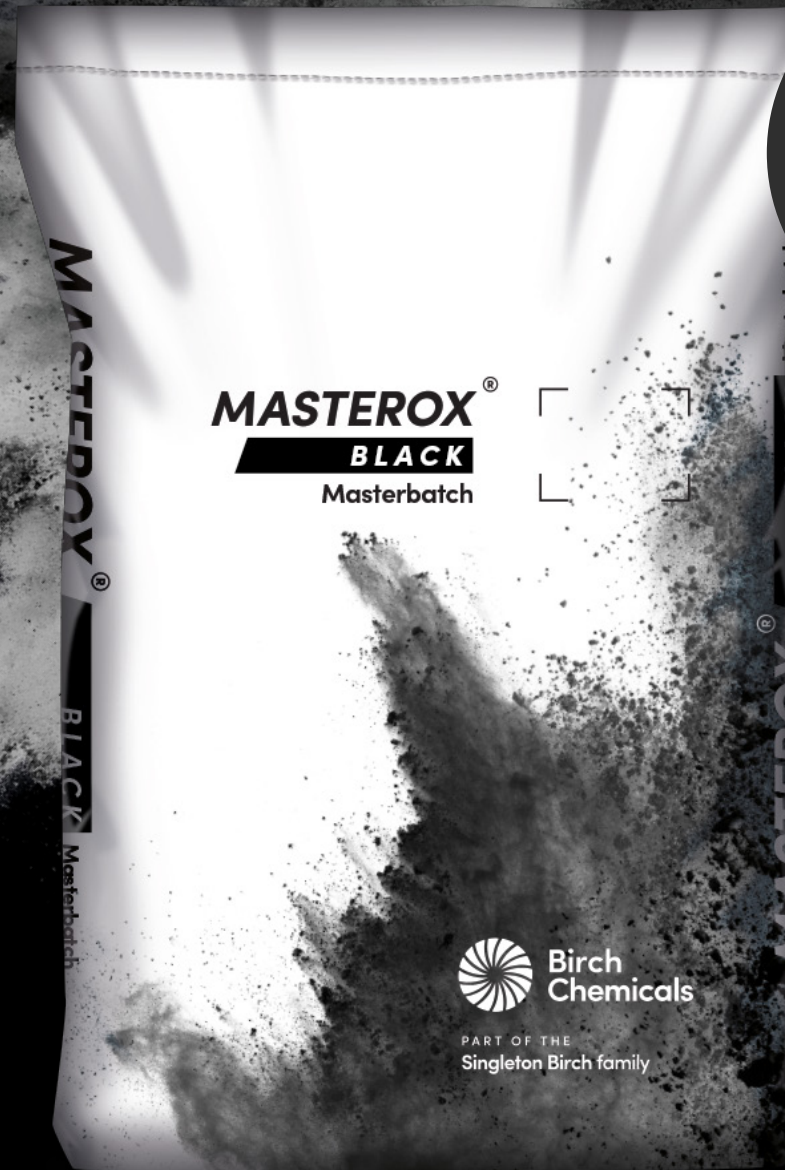
- Blow moulding
- Injection moulding
- Blown film
- Pipe extrusion
- Raffia and yarn

MASTEROX BLACK 40%

40% Carbon black concentration in LLDPE carrier resin. Applications/ideal for:

- Blow moulding
- Injection moulding
- Blown film
- Pipe extrusion
- Raffia and yarn

Compatibility	LLDPE, LDPE, HDPE and PP
Carbon Black	20% and 40% content
Density (g/cm ³)	1.05
Processing temp.	140 – 280C
Melt flow rate	0.5g/10mins (190oC/2.16kg)
Packed in	20kg (1200kg)



Innovative formulations
equal
world-class results

Formulated
for **intense blackness**
& **brightness**



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Also available from
MASTEROX

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PRODUCT: Masterox Antiblock
TYPE: Antiblock
BENEFIT: Enhances separation between layers



PRODUCT: Masterox Antioxidant Stabiliser
TYPE: Stabiliser
BENEFIT: Improves heat stability, processing and life span



PRODUCT: Masterox Antistatic
TYPE: Antistatic
BENEFIT: Reduces surface static



PRODUCT: Masterox BIO Filler
TYPE: Filler
BENEFIT: Calcium carbonate in bioplastic resin (100% organic)



PRODUCT: Masterox Optical Brightener
TYPE: Brightener
BENEFIT: Enhances whiteness and brightness



PRODUCT: Masterox UV Stabiliser
TYPE: Stabiliser
BENEFIT: Prevents UV degradation



PRODUCT: Masterox Polymer Processing Aid
TYPE: Processing Aid
BENEFIT: Improves melt characteristics and processability



PRODUCT: Masterox Transparent Filler
TYPE: Filler
BENEFIT: High transparency fillers



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Chemicals**

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Get in touch

E: sales@birchchemicals.co.uk

T: +44 1652 686080

Melton Ross Quarries, Barnetby, North Lincolnshire, DN38 6AE, UK

birchchemicals.co.uk

