MAKROPLUS® CC 1500/ABS is an electroconductive concentrate based on ABS terpolymer and a highly electroconductive carbon black CHEZACARB® AC. MAKROPLUS® CC 1500/ABS is intended for applications where permanent antistatic or electroconductive properties are required (e.g. electrotechnical components, sheets, boxes and containers).

Informative Parameters

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>UNIT</th>
<th>TYPICAL VALUE</th>
<th>TEST METHOD</th>
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*measured on extruded sheet (thickness 1 mm)

MAKROPLUS® CC 1500/ABS can be blended with pure ABS terpolymer or used in blends with PC to achieve the optimal electric conductivity (see the graph below).

MAKROPLUS® CC 1500/ABS is suitable for extrusion and injection moulding using common processing equipment.

Carbon black structure is sensitive to high shear forces. Too much shear stress during processing may damage carbon black structure and reduce electric conductivity. Therefore excessive shear forces should be avoided.
**MAKROPLUS® CC 1500/ABS**

**Volume Resistivity as a function of MAKROPLUS® CC 1500/ABS content**
measured on extruded sheets: thickness 1 mm

The data in the graph above represent typical test values provided only as a guidance and are not a product specification.

**MAKROPLUS® CC 1500/ABS in ABS (wt.%)**
The data in the graph above represent typical test values provided only as a guidance and are not a product specification.

**DRYING**
Pre-drying is recommended for 4–8 hrs at 80 °C before processing.

**PROCESSING**
***EXTRUSION:***
As a general guide, recommended melt temperature is 210–230 °C during extrusion. Actual extrusion temperature should be adapted to the equipment, manufactured product and the concentration of MAKROPLUS® CC 1500/ABS.

***INJECTION MOULDING:***
As a general guide, recommended temperature is 230–260 °C (barrel/nozzle) and 60 °C mould temperature. Real processing conditions depend on the used machine; the injection moulded part and on the concentration of MAKROPLUS® CC 1500/ABS.

**PACKAGING**
MAKROPLUS® CC 1500/ABS is supplied in the form of pellets (size 2–4 mm) packed in 25 kg PE bags. Upon customer request, larger quantities can be provided in big-bags.

**STORAGE**
The product should be stored in dry conditions at temperatures below 40°C, and protected from UV-light. MAKROPLUS® CC 1500/ABS can be stored for 2 years subject to the above mentioned conditions. After this time, properties of the product should be tested.

**SAFETY**
MAKROPLUS® CC 1500/ABS is not recommended for food contact applications. Even though the concentrate contains no dangerous substance it should be handled observing the general rules for handling of chemicals. Before processing, please refer to the Material Safety Data Sheet.

The information in this data sheet represents typical values obtained by our company and should not be regarded as a specification. It may not substitute the testing that shall be done by customer.

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ELECTROCONDUCTIVE CONCENTRATE
MAKROPLUS® CC 1500/PET

MAKROPLUS® CC 1500/PET is an electroconductive concentrate based on PET and a highly electroconductive carbon black CHEZACARB® AC. MAKROPLUS® CC 1500/PET is intended for applications where permanent antistatic or electroconductive properties are required (e.g. ESD foils, films, packaging).

Informative Parameters

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>UNIT</th>
<th>TYPICAL VALUE</th>
<th>TEST METHOD</th>
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<td>Elongation at Break</td>
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*measured on extruded sheet (thickness 1 mm)

MAKROPLUS® CC 1500/PET can be blended with pure PET or used in blends with PBT or PC to achieve optimal electric conductivity (see the graph below).

MAKROPLUS® CC 1500/PET is suitable for extrusion and injection moulding using common processing equipment. Carbon black structure is sensitive to high shear forces. Too much shear stress during processing may damage carbon black conductive structure and reduce electric conductivity. Therefore excessive shear forces should be avoided.
**MAKROPLUS® CC 1500/PET**

Volume Resistivity as a function of MAKROPLUS® CC 1500/PET content
measured on extruded sheets: thickness 1 mm

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**DRIYING**
Pre-drying is recommended for 4–8 hrs at 120 °C before processing.

**PROCESSING**

**EXTRUSION:**
As a general guide, recommended melt temperature is 270–280 °C during extrusion. Actual extrusion temperature should be adapted to the equipment, manufactured product and the concentration of MAKROPLUS® CC 1500/PET.

**INJECTION MOULDING:**
As a general guide, recommended temperature is 280–295 °C (barrel/nozzle) and 90 °C mould temperature. Real processing conditions depend on the used machine, injection moulded part and on the concentration of MAKROPLUS® CC 1500/PET.

**PACKAGING**
MAKROPLUS® CC 1500/PET is supplied in the form of pellets (2–4 mm) packed in 25 kg PE bags. Upon customer request, larger quantities can be provided in big-bags.

**STORAGE**
The product should be stored in dry conditions at temperatures below 40°C, and protected from UV-light. MAKROPLUS® CC 1500/PET can be stored for 2 years subject to the above mentioned conditions. After this time, properties of the product should be tested.

**SAFETY**
MAKROPLUS® CC 1500/PET is not recommended for food contact applications. Even though the concentrate contains no dangerous substance it should be handled observing the general rules for handling of chemicals. Before processing, please refer to the Material Safety Data Sheet.

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MAKROPLUS® CC 1500/PS is an electroconductive concentrate based on PS and a highly electroconductive carbon black CHEZACARB® AC. MAKROPLUS® CC 1500/PS is intended for applications where permanent antistatic or electroconductive properties are required (e.g. ESD boxes, containers, packaging).

Informative Parameters

<table>
<thead>
<tr>
<th>PROPERTY</th>
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<th>TYPICAL VALUE</th>
<th>TEST METHOD</th>
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*measured on extruded sheet (thickness 1 mm)

MAKROPLUS® CC 1500/PS can be blended with pure PS, HIPS or used in blends with ABS, PMMA, PET or PPO to achieve optimal electric conductivity (see the graph below).

MAKROPLUS® CC 1500/PS is suitable for extrusion, injection moulding or thermoforming using common processing equipment.

Carbon black structure is sensitive to high shear forces. Too much shear stress during processing may damage carbon black conductive structure and reduce electric conductivity. Therefore excessive shear forces should be avoided.
MAKROPLUS® CC 1500/PS

Volume Resistivity as a function of MAKROPLUS® CC 1500/PS content
measured on extruded sheets: thickness 1 mm

DRIYING
Pre-drying is not necessary before processing. In case of need the product should be dried at 105 °C for 2 hours.

PROCESSING
EXTRUSION:
As a general guide, recommended melt temperature is around 210–230 °C during extrusion. Actual extrusion temperature should be adapted to the equipment, manufactured product and the concentration of MAKROPLUS® CC 1500/PS.

INJECTION MOULDING:
As a general guide, recommended temperature is 220–240 °C (barrel/nozzle) and 60 °C mould temperature. Real processing conditions depend on the used machine, injection moulded part and on the concentration of MAKROPLUS® CC 1500/PS.

PACKAGING
MAKROPLUS® CC 1500/PS is supplied in the form of pellets (2–4 mm) packed in 25 kg PE bags. Upon customer request, larger quantities can be provided in big-bags.

STORAGE
Product should be stored in dry conditions at temperatures below 40°C, and protected from UV-light. MAKROPLUS® CC 1500/PS can be stored for 2 years subject to the above mentioned conditions. After this time, properties of the product should be tested.

SAFETY
MAKROPLUS® CC 1500/PS is not recommended for food contact applications. Even though the concentrate contains no dangerous substance it should be handled observing the general rules for handling of chemicals. Before processing, please refer to the Material Safety Data Sheet.

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MAKROPLUS® CC 1503/EVA is an electroconductive concentrate based on EVA and a highly electroconductive carbon black CHEZACARB® AC.

MAKROPLUS® CC 1503/EVA is intended for applications where permanent antistatic or electroconductive properties are required (e.g. ESD films, foils, flooring).

Informative Parameters

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>UNIT</th>
<th>TYPICAL VALUE</th>
<th>TEST METHOD</th>
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<td>MFI (190 °C, 10 kg)</td>
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*measured on extruded sheet (thickness 1 mm)

MAKROPLUS® CC 1503/EVA can be blended with pure EVA or used in blends with PVC to achieve optimal electric conductivity (see the graph below).

MAKROPLUS® CC 1503/EVA is suitable for extrusion and injection moulding using common processing equipment.

Carbon black structure is sensitive to high shear forces. Too much shear stress during processing may damage carbon black conductive structure and reduce electric conductivity. Therefore excessive shear forces should be avoided.
MAKROPLUS® CC 1503/EVA

Volume Resistivity as a function of MAKROPLUS® CC 1503/EVA content
measured on extruded sheets: thickness 1 mm

The data in the graph above represent typical test values provided only as a guidance and are not a product specification.

**DRIYING**
Pre-drying is not necessary before processing. In case of need the product should be dried at 70 °C for 2–4 hours.

**PROCESSING**
**EXTRUSION:**
As a general guide, recommended melt temperature is 150–160 °C during extrusion. Actual extrusion temperature should be adapted to the equipment, manufactured product and the concentration of MAKROPLUS® CC 1503/EVA.

**INJECTION MOULDING:**
As a general guide, recommended temperature is 170–180 °C (barrel/nozzle) and 20 °C mould temperature. Real processing conditions depend on the used machine, injection moulded part and on the concentration of MAKROPLUS® CC 1503/EVA.

**PACKAGING**
MAKROPLUS® CC 1503/EVA is supplied in the form of pellets (2–4 mm) packed in 25 kg PE bags. Upon customer request, larger quantities can be provided in big-bags.

**STORAGE**
Product should be stored in dry conditions at temperatures below 40°C, and protected from UV-light. MAKROPLUS® CC 1503/EVA can be stored for 2 years subject to the above mentioned conditions. After this time, properties of the product should be tested.

**SAFETY**
MAKROPLUS® CC 1503/EVA is not recommended for food contact applications. Even though the concentrate contains no dangerous substance it should be handled observing the general rules for handling of chemicals.

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ELECTROCONDUCTIVE CONCENTRATE

MAKROPLUS® CC 1506/PA 6

MAKROPLUS® CC 1506/PA 6 is an electroconductive concentrate based on PA 6 and a highly electroconductive carbon black CHEZACARB® AC.

MAKROPLUS® CC 1506/PA 6 is intended for applications where permanent antistatic or electroconductive properties are required (e.g. ESD industrial and consumer products, fuel systems).

MAKROPLUS® CC 1506/PA 6 can be blended with PA 6 and other polyamides to achieve optimal electric conductivity (see the graph below).

MAKROPLUS® CC 1506/PA 6 is suitable for extrusion and injection moulding using common processing equipment.

Carbon black structure is sensitive to high shear forces. Too much shear stress during processing may damage carbon black structure and reduce electric conductivity. Therefore excessive shear forces should be avoided.

Informative Parameters

<table>
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*measured on extruded sheet (thickness 1 mm)
**DRYING**
Pre-drying is recommended for 4–8 hrs at 80 °C before processing.

**PROCESSING**
**EXTRUSION:**
As a general guide, recommended melt temperature is 230–250 °C during extrusion. Actual extrusion temperature should be adapted to the equipment, manufactured product and the concentration of MAKROPLUS® CC 1506/PA 6.

**INJECTION MOULDING:**
As a general guide, recommended temperature is 250–280 °C (barrel/nozzle) and 60 °C mould temperature. Real processing conditions depend on the used machine; injection moulded part and on the concentration of MAKROPLUS® CC 1506/PA 6.

**PACKAGING**
MAKROPLUS® CC 1506/PA 6 is supplied in the form of pellets (2–4 mm) packed in 25 kg PE bags. Upon customer request, larger quantities can be provided in big-bags.

**STORAGE**
Product should be stored in dry conditions at temperatures below 40°C, and protected from UV-light. MAKROPLUS® CC 1506/PA 6 can be stored for 2 years subject to the above mentioned conditions. After this time, properties of the product should be tested.

**SAFETY**
MAKROPLUS® CC 1506/PA 6 is not recommended for food contact applications. Even though the concentrate contains no dangerous substance it should be handled observing the general rules for handling of chemicals. Before processing, please refer to the Material Safety Data Sheet.

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ELECTROCONDUCTIVE CONCENTRATE

MAKROPLUS® CC 1510/LLDPE

MAKROPLUS® CC 1510/LLDPE is an electroconductive concentrate based on LLDPE and a highly electroconductive carbon black CHEZACARB® AC. MAKROPLUS® CC 1510/LLDPE is intended for applications where permanent antistatic or electroconductive properties are required (e.g. ESD films, foils, packaging).

MAKROPLUS® CC 1510/LLDPE can be blended with LDPE, LLDPE and HDPE to achieve optimal electric conductivity (see the graph below).

MAKROPLUS® CC 1510/LLDPE is suitable for extrusion and injection moulding using common processing equipment.

Carbon black structure is sensitive to high shear forces. Too much shear stress during processing may damage carbon black structure and reduce electric conductivity. Therefore excessive shear forces should be avoided.

Informative Parameters

<table>
<thead>
<tr>
<th>PROPERTY</th>
<th>UNIT</th>
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*measured on extruded sheet (thickness 1 mm)
MATERIAL DATA SHEET

MAKROPLUS® CC 1510/LLDPE

Volume Resistivity as a function of MAKROPLUS® CC 1510/LLDPE content measured on extruded sheets: thickness 1 mm

**DRYING**
Pre-drying is not necessary before processing. In case of need the product should be dried at 75 °C for 2–4 hours.

**PROCESSING**
**EXTRUSION:**
As a general guide, recommended melt temperature is around 170–200 °C during extrusion. Actual extrusion temperature should be adapted to the equipment, manufactured product and the concentration of MAKROPLUS® CC 1510/LLDPE.

**INJECTION MOULDING:**
As a general guide, recommended temperature is 190–210 °C (barrel/nozzle) and 40 °C mould temperature. Real processing conditions depend on the used machine, injection moulded part and on the concentration of MAKROPLUS® CC 1510/LLDPE.

**PACKAGING**
MAKROPLUS® CC 1510/LLDPE is supplied in the form of pellets (2–4 mm) packed in 25 kg PE bags. Upon customer request, larger quantities can be provided in big-bags.

**STORAGE**
Product should be stored in dry conditions at temperatures below 40 °C, and protected from UV-light. MAKROPLUS® CC 1510/LLDPE can be stored for 2 years subject to the above mentioned conditions. After this time, properties of the product should be tested.

**SAFETY**
MAKROPLUS® CC 1510/LLDPE is not recommended for food contact applications. Even though the concentrate contains no dangerous substance it should be handled observing the general rules for handling of chemicals. Before processing, please refer to the Material Safety Data Sheet.

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ELECTROCONDUCTIVE CONCENTRATE

MAKROPLUS® CC 1510/PP is an electroconductive concentrate based on PP homopolymer and a highly electroconductive carbon black CHEZACARB® AC.

MAKROPLUS® CC 1510/PP is intended for applications where permanent antistatic or electroconductive properties are required (e.g. ESD boxes, pallets and packaging).

MAKROPLUS® CC 1510/PP can be blended with polypropylene homopolymers or copolymers to achieve optimal electric conductivity (see the graph below).

MAKROPLUS® CC 1510/PP is suitable for extrusion and injection moulding using common processing equipment.

Carbon black structure is sensitive to high shear forces. Too much shear stress during processing may damage carbon black structure and reduce electric conductivity. Therefore excessive shear forces should be avoided.

Informative Parameters

<table>
<thead>
<tr>
<th>PROPERTY</th>
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*measured on extruded sheet (thickness 1 mm)
MAKROPLUS® CC 1510/PP
Volume Resistivity as a function of MAKROPLUS® CC 1510/PP content
measured on extruded sheets: thickness 1 mm

DRYING
If the product is stored under recommended conditions pre-drying is not necessary. In case of need the product should be dried at 90 °C for 2 hours.

PROCESSING
EXTRUSION:
As a general guide, recommended melt temperature is 200–230 °C during extrusion. Actual extrusion temperature should be adapted to the equipment, manufactured product and the concentration of MAKROPLUS® CC 1510/PP.

INJECTION MOULDING:
As a general guide, recommended temperature is 200–230 °C (barrel/nozzle) and 40 °C mould temperature. Real processing conditions depend on the used machine, injection moulded part and on the concentration of MAKROPLUS® CC 1510/PP.

PACKAGING
MAKROPLUS® CC 1510/PP is supplied in the form of pellets (2–4 mm) packed in 25 kg PE bags. Upon customer request, larger quantities can be provided in big-bags.

STORAGE
Product should be stored in dry conditions at temperatures below 40°C, and protected from UV-light. MAKROPLUS® CC 1510/PP can be stored for 2 years subject to the above mentioned conditions. After this time, properties of the product should be tested.

SAFETY
MAKROPLUS® CC 1510/PP is not recommended for food contact applications. Even though the concentrate contains no dangerous substance it should be handled observing the general rules for handling of chemicals. Before processing, please refer to the Material Safety Data Sheet.

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