

EN



Member of ORLEN Unipetrol Group

MA



HIGHLY ELECTROCONDUCTIVE CONCENTRATES AND COMPOUNDS FOR PLASTICS

ORLEN Unipetrol group is the largest refinery and petrochemical company in the Czech Republic. **ORLEN Unipetrol** manufactures and distributes fuels, plastics, oils, lubricants and fertilizers, and many other products.

ORLEN Unipetrol is a part of Orlen, one of the largest European refining and petrochemical groups.



MAKROPLUS® CC products are granulated electroconductive carbon black Chezacarb concentrates and compounds found in various thermoplastics. They are well suited to applications which require permanent antistatic or electroconductive properties

MAKROPLUS® CC products are designed to be either diluted with appropriate plastics or directly processed using the most common plastics processing technologies.



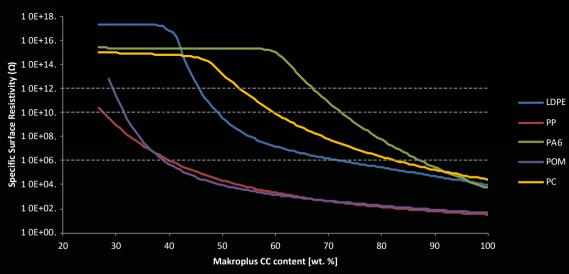
MAKROPLUS®CC APPLICATIONS

MAKROPLUS®CC

PROCESSING: Electroconductive MAKROPLUS® CC can be processed on standard processing equipment with common plastic technologies such as injection moulding, extrusion, film blow moulding, extrusion blow-moulding and foaming using chemical or physical foaming technologies. The typical recommended dose is around 40-60 wt.%, depending on the desired final product resistivity. For more information, please refer to the technical data sheet for each specific product.

PORTFOLIO: Concentrates are available in all common polymer matrices, including PP, HDPE, LLDPE, LDPE, EVA, ABS, PS and PA 6. Tailor-made concentrates in other thermoplastics or materials with specific properties (e.g., PLA, PC, POM or TPE) can be produced upon customer request.

Specific Surface Resistivity vs. Makroplus CC Content in Various Polymers measured on extruded sheets (thickness 1 mm)



TYPICAL APPLICATIONS

- electroconductive or antistatic plastics to produce blown film
- pipes for chemical and mining applications
- fuel tanks, fuel piping
- containers, jerry cans
- antistatic transport boxes, ESD foams, transport pallets
- flooring
- geomembranes and many others

SPECIAL APPLICATIONS

- 3D printing
- fibres



MAKROPLUS®CC PACKAGING, STORAGE, SAFETY

MAKROPLUS®CC SALES CONTACTS

PACKAGING:

MAKROPLUS® CC concentrates are supplied in pellet form (size 2-4 mm) and packed in 25 kg PE bags. Concentrates can also be supplied in large bags

upon customer request.

STORAGE:

Under standard conditions for plastics, protected from moisture, heat and direct sunlight.

SAFETY:

MAKROPLUS® CC concentrates do not contain any dangerous substances, however general chemical handling rules should be observed.

Martin Adamec

Sales – Makroplus® CC +420 736 508 423 Martin.Adamec@orlenpolymer.cz

Helga Kirchner

Sales – Product Management (Germany, Austria, Switzerland) Helga.Kirchner@orlenunipetrol.de

ORLEN Unipetrol RPA s.r.o. –

POLYMER INSTITUTE BRNO, o.z. Tkalcovská 36/2, 602 00 Brno Czech Republic

ORLEN Unipetrol RPA s.r.o.

Záluží 1, 436 70 Litvínov Czech Republic



For more information, please visit: www.orlenpolymer.cz www.chezacarbcarbonblack.com