

ELECTRICALLY CONDUCTIVE AND STATIC DISSIPATIVE PLASTICS INDUSTRIAL APPLICATIONS



FOR THE SAFETY OF YOUR PRODUCTS

Electrically conductive PRE-ELEC® compounds and concentrates ensure a safe handling of dusts, powders and liquids also in EX-environments and other explosive atmospheres.

Light and corrosion resistant plastics are used for metal replacement, since their processing is easy and cost-efficient.

PIPES AND PROFILES

- chemical and process industry
- coal mines
- construction
- oil and gas

FLEXIBLE HOSES, FILMS, FILAMENTS AND TAPES

- chemical and process industry
- dust extraction
- textile industry

CANISTERS, PAILS AND DRUMS

- chemical and process industry
- coal mines

LOOKING FOR A TAILORED SOLUTION?

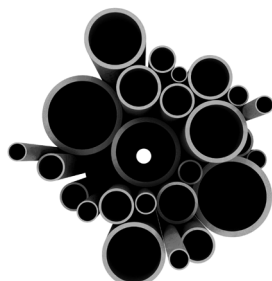
In case you are looking for electrically conductive plastic compound with special features do not hesitate to contact us at Premix - we are glad to tailor a compound meeting your exact demands.

We introduced the first conductive compound in 1983 among the first companies in the world. Today PRE-ELEC® product family has emerged to cover the conductive and static dissipative areas of the resistance spectrum and a wide variety of base polymers.



Safety in hazardous environments

People and environment safety is a key issue when flammable and hazardous liquids, gases and powders are processed, transported and used. It is exceedingly important to secure an explosion-free environment – a single spark can lead to serious consequences. Unlike traditional plastics, electrically conductive plastic materials can be grounded and the generation of electrostatic charges eliminated. These high-quality plastics also ensure lightweight, corrosion-resistant and durable product solutions.



PRE-ELEC® PS concentrate is the most cost-efficient raw material solution for ESD component trays. It performs pre-eminently also in challenging formulations. E.g. by improving sheet's mechanical properties even when diluted with undefined recycled polystyrene fraction.



UN approved PRE-ELEC® PE compound challenges metal in chemical pails. In order to stand loading while stacked it has relatively high stiffness and impact resistance whereas its low melt viscosity enables better processability of thin walled structures.

Right plastics for explosive atmospheres (ATEX)

Electrically conductive plastics are ATEX applicable since they fulfill the surface resistance requirement set for plastic materials used in ATEX applications.



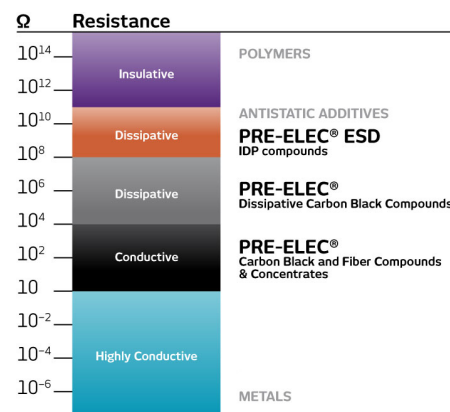
PRE-ELEC® EVA and LLD compounds and concentrates for foam extrusion are tailor-made to match each customer's unique process and foaming technology.

PRE-ELEC® – Carbon black compounds and concentrates

Carbon black has established a position as the most widely used conductive filler. It offers the superior price-performance ratio and stable properties over the time. Carbon black concentrates are an excellent way to reduce the raw material costs. Besides the economical advantage, concentrates also allow the modification of product properties. To impart stiffness and strength to the finished product, the reinforced plastic can be used for dilution. One may also modify the flame-retardant properties by including a flame-retardant masterbatch in the process.

PREMIX – innovative and reliable product concepts

Premix is the leading specialist in electrically conductive plastics and high performance plastic solutions. Over the years we have gained profound knowledge in carbon black dispersion and polymer modification. We are committed to creating innovative and reliable plastic raw material solutions for our customers' specific needs. The best success stories are born from long-term customer partnerships.



Premix's comprehensive product portfolio covers the plastics resistance spectrum from conductive up to static dissipative area.



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**We know our business, but this is not enough.
We want to know your business, too. Strong partnerships with
customers and leading institutes are our way of finding shorter
and faster roads to Success.**

To put it in short:

$$S = 17.000 + (U_B \times (R\&D))^{PP}$$

**Check out the building blocks of our formula
and join us on the journey to Success!**

