

RAMIX X

TAMING THE STATIC ELECTRICITY

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Materials matter!

A single material choice can...

“...guarantee the superior functionality
in a complex technological process.”

...

“...open completely new markets through
its exceptional performance.”

Our formula for success

$$S = 16,000 + (U_B \times (R+D))^{PP}$$

Our formula for success

Personal
partnership

$$S = 16,000 + (U_B \times (R+D))^{PP}$$

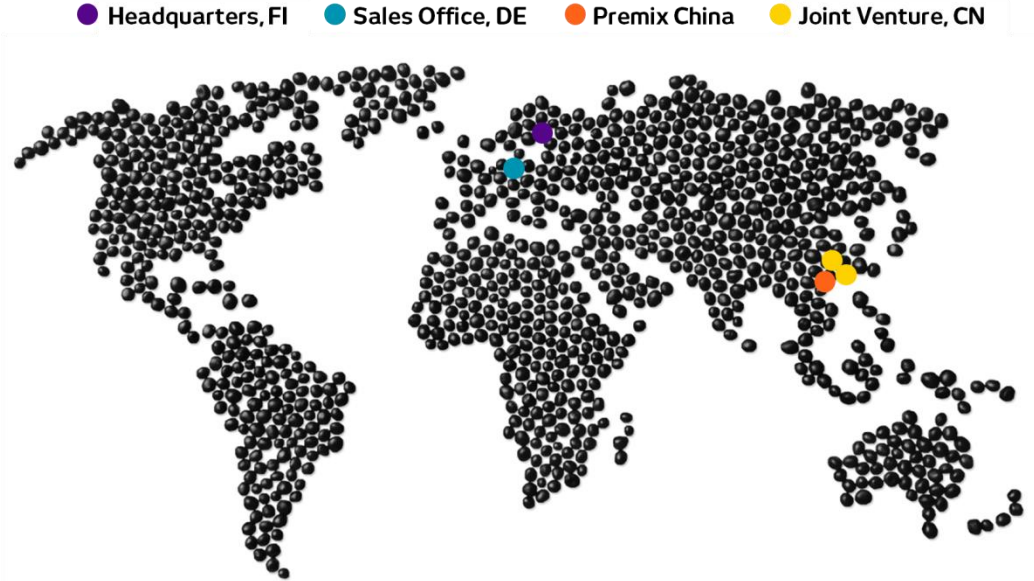
Number of plastic
compound formulations
in our ever-growing
database

Understanding
the customer's
business needs
and processes

Dedicated research
and development
for new materials

Facts about us

- Independent compounder, with a clear focus on customer needs since 1972.
- 'Products and services function' is the strategic strength of Premix.*
- Turnover 35 M€
- Dedicated new materials development. R&D expenditure in 2016 5 M€.



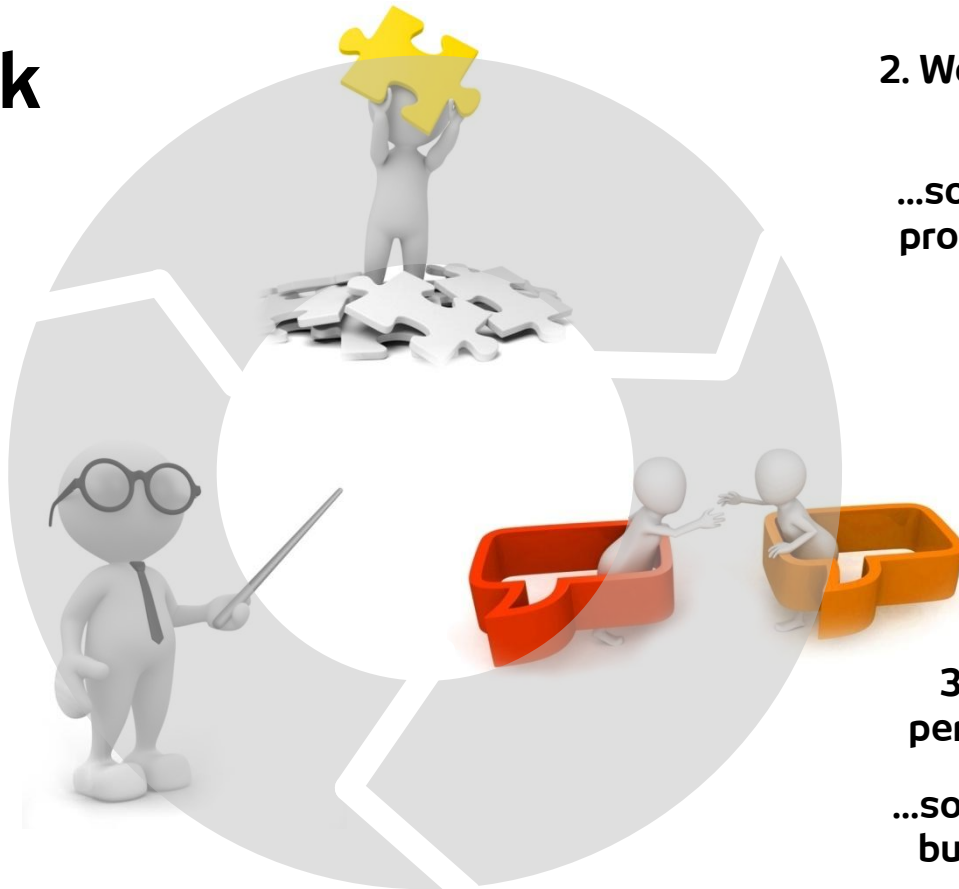
Network of local distributors and warehouses in over 30 countries.

*Premix customer satisfaction study 2015 / Taloustutkimus

How we work

1. We listen to market and customer needs

...so we can better understand application specific material requirements.



2. We deliver the matching material solution

...so every compound we provide is the best fit to your process and specification.

3. We aim for deep personal partnerships

...so we can develop our businesses together.

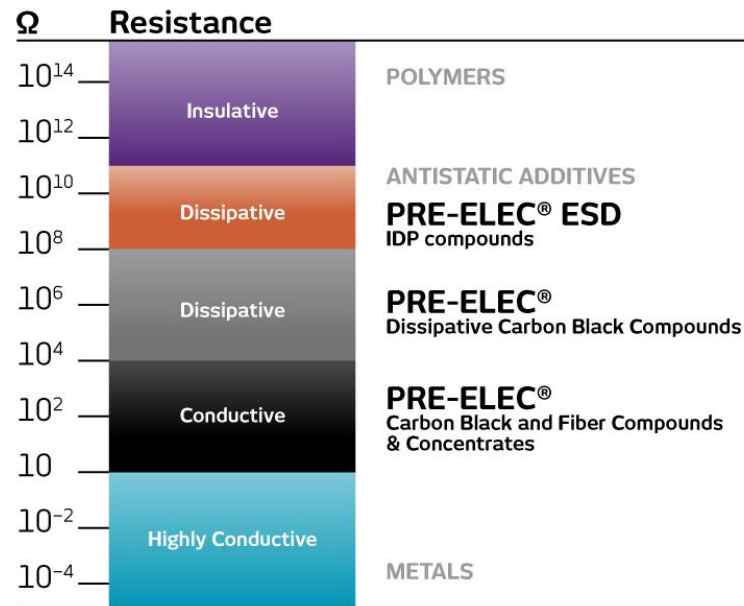
Our vision is to build personal relationships with our customers and improve their business together by offering the best material solutions.

Electrically conductive plastics

Forerunner in electrically conductive plastics

We created an **electrically conductive compound** for ESD packaging among the first 3 companies in the world.

Today we offer a comprehensive portfolio of **PRE-ELEC®** compounds with conductive fillers.

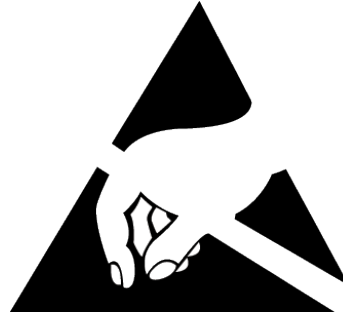


We develop materials for specific demands



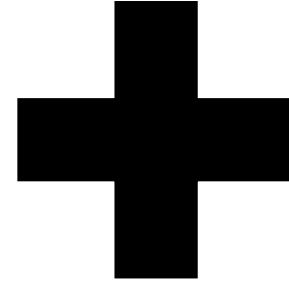
ATEX

to ensure a safe working environment in explosive atmospheres



ESD

to protect sensitive components and people from uncontrolled static discharge



MEDICAL

to guarantee accurate analyses and dosing

We serve a wide range of applications



AUTOMOTIVE FUEL SYSTEMS

to control electrostatic
build-up



DIAGNOSTICS

for liquid level detection
and accuracy in medicine
dosing systems and
analytics



ELECTRONICS PACKAGING

to ensure the safe
packaging and
transportation of
sensitive components



PIPING & OTHER INDUSTRIAL

for EX-applications and safe
handling of flammable and
explosive materials

We develop 20 new applications annually – what's your business need?

Electronics

Static dissipative boxes

Application

Static dissipative boxes– slower charge dissipation than with conductive materials.

Challenge

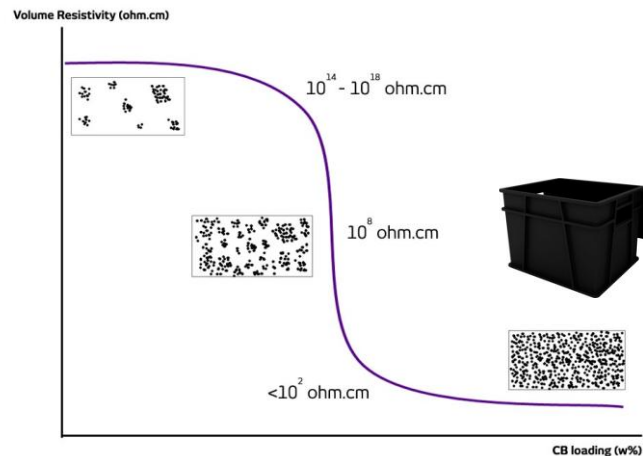
Overcome carbon black's percolation behaviour and develop a dissipative carbon black compound within the resistance range from 10^4 to $10^8 \Omega$.

Solution

Static dissipative PRE-ELEC[®] PP carbon black compounds.

Advantage

Cost-effective carbon black compound with controlled resistivity.
Cheaper €/kg than with non-black IDP (Inherently Dissipative Polymer) compounds.



Infrastructure

Replacing metal in air-ventilation pipes

Application

Plastic air-ventilation system.

Challenge

Preventing the build up of static electricity ⇒ grounded system.

Solution

Co-extruded 3-layer pipes with electrically conductive PRE-ELEC® compound in inner and outer layers.

Electrically conductive PRE-ELEC® compound for injection molded joints.

Advantage

Smooth inner surface prevents dust sticking inside pipe, easier cleaning.

⇒ Cleaner and fresher air

Plastic enables optimized air flow and reduces noise.

⇒ Better living comfort

Easy and safe to install, system is more resilient and durable metal systems.

⇒ Cost savings



Mining

Cable protection for mining machinery

Application

Cable protection hose for mining machines in underground mines and other EX environments.

Challenge

Product with electrical conductivity and flame retardant properties (compliance with ATEX and other mining requirements).

Solution

Co-extruded spiral with outer layer made out of electrically conductive PRE-ELEC® compound and flame retardant MB.

Advantage

Enabling the new market entry.

Product approved by US. Mine Safety and Health Association.



Cost savings through Conductive concentrates

Advantages

Different base polymers, optimized products for both injection molding and extrusion applications.

Nice payback with a little extra effort.

Enables 'self-made' modification of the product properties.

The most cost benefits can be found from the molding of large plastic parts or extruded sheets, profiles and pipes.



Keep in mind

Always test first in your own process and find your dilution-performance ratio.

Remember the process/product control.

LET'S MAKE
A GOOD MIX

www.premixgroup.com