

# PLASTICS IN ELECTRONICS

LET'S MAKE A GOOD MIX

PREMIX



**PREMIX IS THE LEADING SPECIALIST IN  
ELECTRICALLY CONDUCTIVE PLASTICS AND  
OTHER UNIQUE PLASTIC SOLUTIONS FOR  
THE ELECTRONICS AND WIRELESS INDUSTRIES.**

**STRONG PRODUCT DEVELOPMENT KNOW-HOW,  
UNDERSTANDING OF CUSTOMER NEEDS AND  
EXPERTISE IN THE FIELD OF POLYMER MODIFICATION  
HAVE HELPED US CREATE INNOVATIVE AND  
RELIABLE PRODUCT CONCEPTS.**

**We offer just one product. A solution. Generating this solution is our job. Our way of working is based on strong dedication to our customers: We share the targets, but the challenge is ours.**



## PLASTICS IN ELECTRONICS

### – More than plastics

It is our passion to create innovative material solutions to enhance our customers' competitive edge.

Our existing unique solution offering, which includes high frequency materials, controlled dielectric constant compounds, thermally conductive compounds and materials for EMI shielding is a clear sign of our professional approach.

Our excellence is based on our profound know-how on polymer modification, which enables us to add functional properties desired on complex devices. Problems we solve may relate to electromagnetic shielding of sensitive electronics, miniaturization of electronics by minimizing antenna sizes or to enabling faster speeds by minimizing internal signal losses.

### New invention takes PPE to a higher performance level

Our PRETECH, PREPERM, PREBOARD and PREFLEX products are based on an

innovative PPE plasticizing technology platform jointly developed in collaboration with leading institutes.

Together with other material modification innovations, the platform enables tailored solutions required in various applications.

Applications can be found in wireless communication, automotive electronics, medical devices and other demanding industries.

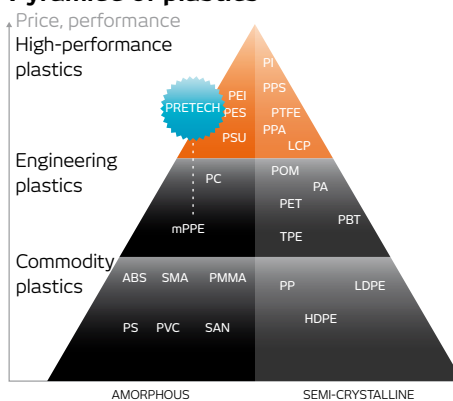
### PREMIX – Forerunner in conductive plastics

In electrically conductive plastics, we utilize our profound knowledge gained from carbon black dispersion. Today, our conductive plastics are widely used in electrostatic discharge (ESD), explosive atmospheres (ATEX), metal replacement and level detection applications serving many industries including automotive, chemical, medical and mining.

Premix's comprehensive product portfolio covers the whole resistance spectrum from surface resistance levels from as low as  $1E-3$  ohm up to static dissipative levels  $1E11$  ohm.

Our extensive expertise is at your service. Let's make your wishes come true in novel material solutions!

### Pyramide of plastics



Plastic resin pyramid and high performance PPE, PRETECH's placement in the scale.

## PLASTICS IN ELECTRONICS OFFERS

### High performance PPE – PRETECH

PPE's unique properties combined with high temperature resistance

### High frequency material – PREPERM

Extremely low dissipation factor and tailorable dielectric constant plastics for miniaturized HF and high speed applications.

### EMI shielding elastomer – PRESEAL®

Extremely conductive elastomer for EMI shielding, conductors and grounding.

### Thermally conductive compound – PRETHERM

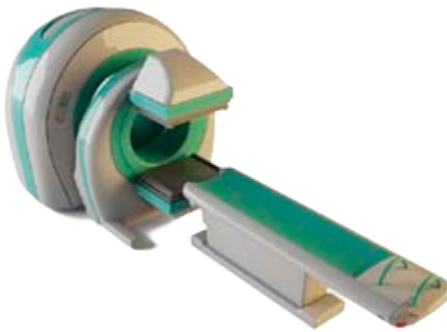
Elastic thermoplastic for efficient heat dissipation.

### High frequency printed circuit board laminate – PREBOARD

A new special low-cost HF PCB substrate with excellent dielectric properties, good heat stability, low water absorption, good chemical resistance and inherent flame retardancy.

### High temperature film – PREFLEX

A high-temperature film for printed electronics and other special applications with an outstanding combination of dielectric properties, heat stability, low water absorption and good chemical resistance.



**PRETECH**, applications are found in electronics and defence, aerospace, and medical devices.



**PREPERM**, maximizes handset antenna gain.



**PRESEAL®**, over 100 db shielding efficiency with injection molded gaskets.



**PRETHERM**, maximizes thermal transfer for injection molded parts.



**PREBOARD**, high performance antenna elements for mobile base stations.



**PREFLEX**, enables high conductive ink sintering temperatures.

# CARING. CREATING. COMMITTED.

**We Care. We know that we can make good things even better. We Create by challenging ourselves every day. We are Committed to doing things better. This is our way of fulfilling our promise. Both to ourselves and to our customers.**

## **Better together**

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 the best solutions.

We are committed to creating functional tailored innovative and reliable plastic raw material solutions. Success stories emerge from long-term customer partnerships.

## **Environmental production, responsible care**

We care. This also applies to the environment. We are all committed to the chemical industry's global Responsible Care environmental program. It is part of our everyday life. Small steps drive us to reach continuous improvement in health, safety and environmental performance.

## **A global distributor network at your service**

We think and operate globally but with a strong local presence. Our distributor network currently covers over 30 countries. We are ready for your challenge!



**PREMIX**



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