



**SohnerPlastics**

*Intelligent Packaging Solutions*



**ELECTRO STATIC DISCHARGE  
PROTECTIVE PACKAGING**

# ESD Protective Packaging

## Electro Static Discharge Packaging

### What is Electro Static Discharge?

Electrostatic discharge (ESD) describes the transfer of electrical charge between two objects.

As a result of the increasing use of plastics and/or plastic-coated materials, problems arise through the loading and unloading of these insulating materials.

Electrostatic discharge (ESD) may occur between the charged surfaces and the grounded objects in the immediate vicinity. This can lead to undesired interference or damage of sensitive electronics in devices and sensors. The energy of a static discharge in a semiconductor behaves in its relationship to the earth, like the energy of a lightning bolt to a tree.

### Protective Measures:

Protective measures have the goal of protecting electronic components and component groups from electrostatic loading as well as controlling the discharge of existing charge.

This can be achieved through the antistatic packing of SOHNER PLASTICS.



### Who is Sohner Plastics?

We have been developing and producing packing for the automobile and electronics industries for over 35 years, and therefore have extensive experience in the production of antistatic packing. In close cooperation with our customers and material suppliers, innovative and trend-setting developments are implemented for the widest range of applications. For the military area, for example, we developed an antistatic ammunition case that was tested under extreme conditions. Another example is a highly-robust, antistatic collapsible container (1200 x 800 x 985 mm), which was developed for the transport of circuit boards. We used specially developed HDPE material for both applications.

Our product program includes conductive plastic and plastic corrugated sheets as well as the containers, inserts and separator elements, deep-drawn work in progress trays, blisters, pallets, and box pallets manufactured from them, with dimensions up to 1800 x 1200 x 1000 mm. In addition, we offer roll cars and rolling containers made of conductive HDPE and anti-slip sheets based on conductive ABS-TPU.

## BOX PALLETS

Conductive, foldable box pallets with Twinsheet sleeve or sleeve made of plastic corrugated multi-layer sheets.

**Material:**  
Conductive HDPE  
or conductive PP

**Measurements:**  
1200 x 800 mm  
1800 x 1200 mm  
1140 x 1140 mm

Additional measurements  
on request



## PRODUCTION TRAYS

Conductive containers for combi-instruments.

**Material:** Conductive PS  
**Measurements:** 500 x 600 mm  
other sizes on request



## INSERTS

Conductive and stackable inserts.

**Material:**  
Conductive ABS with conductive TPU  
coating or conductive PS

**Measurements:**  
560 x 360 mm  
other sizes on  
request



## INSERTS

Conductive inserts.

**Material:**  
Conductive ABS, conductive PS  
or conductive HDPE

**Measurements:**  
on request



## BLISTER

Conductive blister packing.

**Material:**  
ICP-PS or ICP-PS additive as an alternative  
to carbon -filled material

**Measurements:**  
400 x 300 mm  
other sizes on  
request



## AUTOMATION TRAYS

Conductive blister packing.

**Material:**  
Conductive PS

**Measurements:**  
300 x 200 mm  
other sizes on request



## ESD TRAYS

Conductive work in progress tray.

**Material:**  
Thick-walled sheets of conductive ABS,  
conductive PS or conductive HDPE

**Measurements:**  
600 x 800 mm  
other sizes on  
request



## WORK IN PROGRESS TRAY

Conductive work in progress tray.

**Material:**  
Thin-walled films of conductive ABS,  
conductive PS or conductive HDPE

**Measurements:**  
400 x 300 mm  
other sizes on  
request



## DIE-CUT SHEETS

Conductive die-cut sheets.

**Material:**  
Full material of conductive HDPE, plastic  
corrugated of conductive PP or conductive PS

**Measurements:**  
on request



## SEPARATOR ELEMENTS

Conductive separator elements, securely  
and durably inserted; also possible with  
edge closure.

**Material:**  
Plastic corrugated sheets, conductive PP

**Measurements:**  
on request



## ENVIRONMENTAL PROTECTION

We have substantial interest in the future. Therefore it is also our responsibility to maintain natural bases of life.

For our company environmental protection means continual commitment en route to resource-conserving production processes. The continually growing proportion of plastic reclaim in technically-demanding parts is our self-evident contribution to securing a sound ecosystem. 85% of our products are already manufactured from recycled plastics.



**ANTISTATIC MATERIAL**

Materials that can be used for the production of antistatic packing:

- Conductive ABS
- Conductive ABS-TPU
- Conductive HDPE
- Conductive PP
- Conductive PS



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