



**ELECTRO STATIC DISCHARGE
PROTECTIVE PACKAGING**



FORM FOLLOWS FUNCTION





What is ESD?

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, different problems arise through the loading and discharge of these insulating materials.

Electrostatic discharge (ESD) may occur between the charged surfaces and the earthed objects that are located in the immediate vicinity or are approached. 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 the SÖHNER Kunststofftechnik GmbH.



The expertise of SÖHNER Kunststofftechnik

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 hollow chamber sheets as well as the containers, inserts and separator elements, deep-drawn workpiece holders, blisters, palettes, and box palettes 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.

Product overview

BOX PALETTES

Conductive, foldable box palletes with Twinsheet ring or ring made of hollow chamber 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

ROLLING CONTAINER

Conductive, foldable palette box with Twinsheet ring and rolling stand

**Material:**

Conductive HDPE

Measurements:

1200 x 800 mm
1200 x 1000 mm

INSERTS

Conductive and stackable inserts in KLT

**Material:**

Conductive ABS with conductive TPU coating or conductive PS

Measurements:

560 x 360 mm
additional measurements on request

INSERTS

Conductive inserts

**Material:**

Conductive ABS, conductive PS or conductive HDPE

Measurements:

on request

WORKPIECE HOLDER

Conductive workpiece holder

**Material:**

Thick-walled sheets of conductive ABS, conductive PS or conductive HDPE

Measurements:

600 x 800 mm
additional measurements on request

WORKPIECE HOLDER

Conductive workpiece holder

**Material:**

Thin-walled films of conductive ABS, conductive PS or conductive HDPE

Measurements:

400 x 300 mm
additional measurements on request

Product overview

CONTAINER

Conductive containers for combi-instruments

Material:

Conductive PS

Measurements:

500 x 600 mm
additional
measurements
on request



AMMUNITION CASE

Conductive ammunition case
with MILITARY certification

Material:

HDPE with
conductive outer
layer

Measurements:

on request



BLISTER

Conductive blister packing

Material:

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

Measurements:

circa 400 x 300 mm
additional measure-
ments on request



BLISTER

Conductive blister packing

Material:

Conductive PS

Measurements:

300 x 200 mm
additional
measurements
on request



PUNCHED SHEETS

Conductive punched sheets

Material:

Full material of
conductive HDPE,
hollow chamber of
conductive PP or
conductive PS

Measurements:

on request



SEPARATOR ELEMENTS

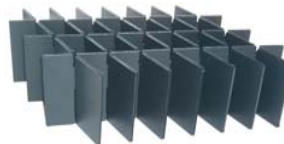
Conductive separator elements, securely and
durably inserted; also possible with edge closure

Material:

Hollow block sheets,
conductive PP

Measurements:

on request





ANTISTATIC MATERIAL

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

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

COMPANY HISTORY



- The SÖHNER Kunststofftechnik GmbH was founded in 1968 and specialises in packing development and plastic deep-drawing technology
- The company is located in Schwaigern near Heilbronn
- There are currently around 100 employees in production and administration
- SÖHNER Kunststofftechnik has foreign representation and subsidiaries in the USA, China, France, Spain, Italy, England, Poland, and Turkey, among others

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.



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