

# Conductive Corrugated Plastic (Correx)

## Description

Conductive corrugated plastic is a durable, static safe material that is excellent for use in cleanroom environments when static protection is also required. The conductive corrugated material is perfect for products that require static shielding, for example, storing or transporting static sensitive components and devices. For maximum durability and reusability, the material is made from a type of corrugated plastic board based on Polypropylene / Ethylene copolymers. The material provides a buried shielding layer and a sealed surface, allowing for a controlled anti-static path to Earth. The buried static shielding layer creates a 'Faraday Cage' effect, directing any static discharges around the outside of the material. This makes the material ideal for use in all sectors within the electronics manufacturing and distribution industries.



## Key Features

- ⚡ Chemically inert.
- ⚡ Resistant to water and grease.
- ⚡ No release of any noxious fumes from ambient temperatures.
- ⚡ Excellent conductive properties (ideal for protection of electronics).
- ⚡ Robust, long-lasting and hard-wearing.
- ⚡ Various weights/thicknesses available.
- ⚡ Great to use for cleanroom applications.
- ⚡ Rigid material, yet lightweight.
- ⚡ The material can easily be fabricated and converted.
- ⚡ Suitable for use in the automotive, electronics, materials handling and other industries.
- ⚡ Compliant to RoHS and REACH.
- ⚡ Compliant according to IEC-61340-1-5 International Standard.

## Bespoke Packaging

Any of the Corstat product range of products can be manufactured using a conductive corrugated plastic material for added strength or for cleanroom use.

Customised packaging can be produced using any combination of Corstat, fibreboard, foam and vacuum formed trays to safely hold even the most complex items.

Conductive corrugated plastic can be manufactured into component boxes, dividers or other Corstat product on request.



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## Technical Performance

Conductive Corrugated Plastic (Correx) is a type of Corrugated Plastic Board based on Polypropylene / Ethylene copolymers.

Grading is based on thickness and grammage weight. i.e. 3/450 is 3mm thick and 450 grammes per square metre.

Two grades are available from stock: 3mm/450gsm and 4mm/700gsm.

Conductive Corrugated Plastic (Correx) is volume conductive, surface resistivity is less than  $10^5$  ohms squared.

Electrical Charge Decay: Method 5.0 KV charge for 5 minutes at 40 RH = V > Units seconds V = 1/10 V=0 > Conductive Black 0.27 0.53

## Additional Information

Conductive Corrugated Plastic is chemically unreactive and is generally regarded as being biologically inert. There is no release of any noxious fumes from ambient temperatures. Although Conductive Corrugated Plastic is inert and can be regarded as harmless, certain boards do contain additives which could be harmful and any ingestion should be avoided. Conductive Corrugated Plastic is ideal for use in cleanroom applications or where a more durable material is needed.



# Eliminate Costly Static Damage...

Whether you are experiencing unacceptable levels of damage in transit, need a specific cleanroom solution or simply don't know which ESD safe equipment is best for you, we can help!

Request complimentary, no obligation advice by speaking with one of our technical experts today.

