

# Conductive foam 5770

EMI shield, low closure force, in any shape



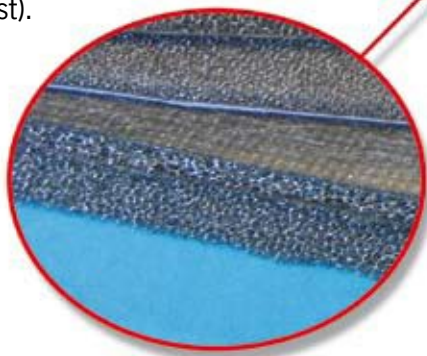
This conductive foam is made of polyurethane foam plated with copper and nickel. Compression is 25% to 75%. It will return nearly to nominal height when released. It is coated with conductive polyurethane to protect the foam from the environment and to prevent burrs when cutting. The conductivity is excellent in all directions X, Y and Z. It is flame retardant and RoHS compliant.

## The conductive foam is characterized by:

- Availability in thicknesses of - 1, 2, 3, 4 and 5 mm, (Other sizes on request).
- Excellent electric conductivity throughout the surface across the thickness
- Excellent electromagnetic shielding effect
- High workability for adhesion
- Easy die cutting, kiss cutting and slitting
- Size - Sheet Type: Max 450 x 450 mm, (Other sizes on request).

## Applications

- Mobile phone
- Noise filter core
- Cable tray
- Shielded rooms



Open cell foam with or without self-adhesive

## Material

- Mesh: Woven Polyester, copper and nickel plated
- Conductive foam: Polyurethane foam (Copper and nickel plated)
- PSA: Acrylic ester polyol copolymer + nickel powder
- PU Coating: Polymer resin (Polyurethane)
- Release liner: CP paper avg 150  $\mu$ m

## Benefits

- With or without self-adhesive
- Supplied as sheets, strips or die-cuts
- With water seal
- Resistant to high temperatures, with cooling holes
- Reinforced with non-woven fabric on 1 or 2 sides
- PSA Attachment Method Option
- Nickel/Copper Metallization
- X-Y-Z Axis Conductivity
- Tolerance of  $\pm 0.5$  mm
- I/O Static Applications/Gasket Replacement

## Technical data

Item	Data
Thickness (mm)	1 to 5 mm
Color	Gray
Adhesive strength (gf/25mm)	>1,000
Holding strength (sec)	>3,600
Surface resistance ( $\Omega$ /sq)	<0,2
Surface resistance ( $\Omega$ /in)	1.0 max
Top-bottom resistance ( $\Omega$ /in)	1.0 max
RoHS	Compliant
Fire retardant (cm/min)	Pass

## Specifications and partnumbers

Product Number	Material (base/material)	Thickness (mm)	Surface resistivity ( $\Omega$ /sq)	Volume resistivity ( $\Omega$ /sq)
57715	PET+PU / Cu+NI	1.5	0.2	0.2
57722	PET+PU / Cu+NI	2.2	0.2	0.2
57734	PET+PU / Cu+NI	3.4	0.2	0.2
57750	PET+PU / Cu+NI	5.0	0.2	0.5
57760	PET+PU / Cu+NI	6.0	0.2	0.5

Ordering information

When ordering conductive foam 5770, please specify part number and dimension. For die cuts, please enclose a detail drawing.

## Example

For example Conductive foam 1.5 mm thick:

Series	Thickness
577	15