



SANDHYA ENTERPRISES

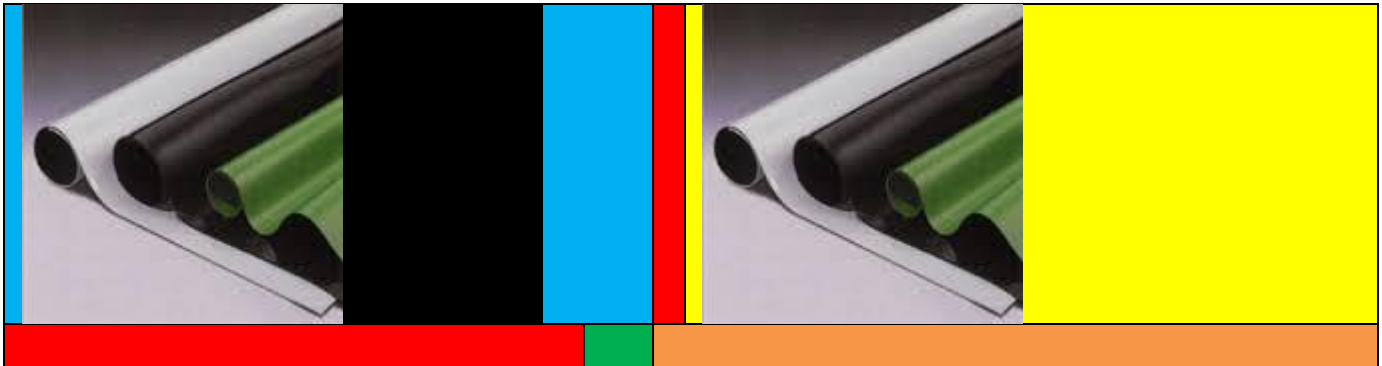
ISO 9001:2015 CERTIFIED COMPANY

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CONDUCTIVE RUBBER SHEET



Conductive Rubber Sheet

The rubber is made conductive by incorporating small conductive metal particles throughout the material. It can provide an EMI-proof and watertight seal in narrow constructions.

Electrically conductive rubbers are typically used for EMI applications. But they are also useful for EMP protection, wave-guide applications and against static electricity. The rubber can be filled with silver, nickel, silvered glass, silvered aluminium, or graphite (only for ESD).

Commercial EMI applications often choose **Nickel-graphite conductive rubber (Part number 5760)** or **Graphite conductive rubber (Part number 5755)** from a costs point of view, while military and aerospace applications often call for **Silver copper silicone conductive rubber**

(Part number 5750) to meet Mil-G-83528C specifications. In military or aerospace, fluorosilicone versions may also be used due to their chemical and fuel resistance.

As the material shields high frequencies, electrically conductive rubber shows a shielding effect of 60 dB at 30MHz ~ 10GHz. Due to its excellent conductivity, grounding, and EMI shielding effect, it is well suited for military communications equipment. The rubber can be manufactured in various shapes such as sheets, moulded parts, die-cut, strips, o-rings, etc.

Benefits

- Excellent conductivity on the entire surface
- Excellent electromagnetic shielding effect
- Easy die-cutting, kiss-cutting and slitting
- Temperature ranges of -60 to +185 °C (under certain circumstances, tolerance can be up to 220°C)