

## RFI/EMI/ESD Shielding



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Consolidated Coating Company offers RFI/EMI/ESD coatings onto a variety of plastic substrates to contain emissions within the equipment onto which the parts are assembled. RFI/EMI shielding effectively blocks the high and low frequency emissions many times caused by electronic/electrical devices. Industrial equipment, electronic enclosures, medical equipment, computer housings, electrical instruments, power supplies are some examples of products that could require this type of shielding.

- Radio frequency and electromagnetic radiation can be emitted from devices and shielding contains these emissions within the device so that interference with the operation of other electronic devices is eliminated.
- Consolidated Coating Company applies copper acrylics, nickel acrylics, and silver plated acrylics to a wide array of plastic resins, e.g. ABS, PC, ABS/PC blends, Kydex, PPO, PPE.
- Shielding is performed to customer specifications. It is applied to internal surfaces with masking to prevent overspray onto customer visible surfaces or applied to external surfaces with a decorative coating overlay.
- Depending on the volume of parts, masking can be accomplished by hand using appropriate materials or masking can be accomplished using custom made electro formed tooling which allows for absolutely repeatability in the masking features.

## CAPABILITIES

Substrates Coated	Plastic (ABS, PC, ABS/TC, Kydex, PPO, PPE, Fiberglass)
Coatings Used	Nickel Copper Silver plated copper
Secondary Operations	Masking Filling/Sanding Silk Screening of Logos
Industries Served	Telecommunications Security Gaming Medical Instrumentation Computer Semiconductor Aerospace Fire Protection Sporting Equipment Laboratory Testing Equipment Life Sciences
Value Added Services	Short term storage of finished or unfinished products Production planning and delivery schedules Free local deliveries by our own transport facilities
Equipment List	Custom Masking Tooling