









Solutions for Your Product Coating Requirements

-  **Electromagnetic Interference**
-  **Radio Frequency Interference**
-  **Electromagnetic Compatibility**
-  **Electrostatic Discharge**
-  **Cosmetic Reflective Finishes**
-  **Optical Finishes**

PMT

Plastic-Metals Technologies, Inc.

The thin-film metallization experts

The Thin-Film Metallization Process



- Parts are cleaned in the Aqueous Cleaner



- Parts are masked and placed on fixtures
- Fixtures are then moved into the Vacuum Chamber



- The Chamber is placed under vacuum; the parts fixtures rotate
- The metal is vaporized and condenses on the parts



- Parts are removed from the Chamber and fixtures
- Secondary assembly services are provided as requested
- Final inspection and quality audits are completed

Superior Electronic Shielding and Reflective Coatings

We're Plastic-Metals Technologies, Inc. Our focus is to help you solve your electronic shielding, reflective surface design and manufacturing challenges. Our proprietary thin-film metallization process applied to your sophisticated electronic enclosures gives you real product advantages.

In basic terms, we apply thin layers of metal onto plastic, glass and ceramics to add electronic shielding, reflectivity, cosmetic and optical enhancements.

This thin metallic layer helps you achieve an exceptionally lightweight, UL-approved EMI/RFI shield

that meets FCC regulations. You also can enjoy the cosmetic appeal of metal – with its classic sheen or optical-grade shine. The film materials we employ include copper, nickel, aluminum and stainless steel.

Plastic-Metals Technologies is proud of the excellent customer service we bring to your product design and manufacturing teams. We have extensive experience in the thin-film metallization and coatings field and offer years of electronics industry product design, operations and manufacturing expertise. We also bring materials and electronics engineering expertise to your project. You'll find us a responsive and dedicated partner.

The *PMT* Solution

You know how difficult it is to find an effective solution to electromagnetic interference, radio frequency interference, electrostatic discharge or cosmetic reflective finishes. We've found the best solution for most applications is thin-film metallization.

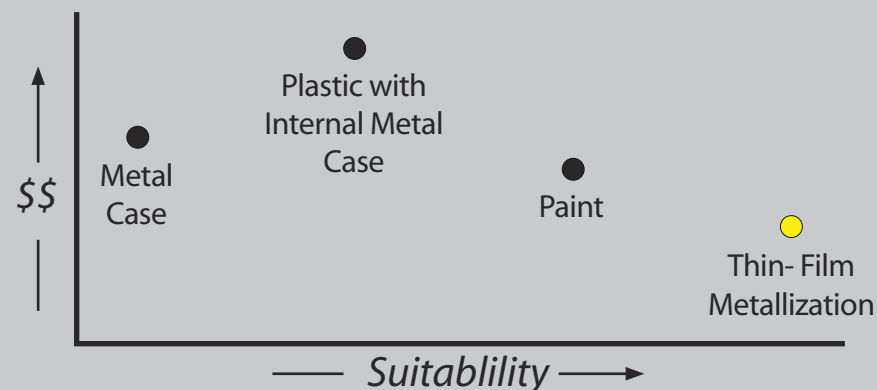
Thin-Film Metallization on Plastic Enclosures Gives You Significant Advantages

- Excellent EMI/RFI/ESD shielding performance
- A cost-effective alternative to other shielding methods
- Superior adhesion – durable coating with no flaking after assembly
- Uniform coverage providing repeatable coating thickness and conductivity
- Selective coatings achieved by precision masking

- Coatings can be applied to most plastic, glass-filled plastic, glass or ceramic substrates
- Thin-film coatings don't interfere with product assembly
- UL approval available on most plastics
- Environmentally friendly process (no VOCs)

Thin-film metallization offers the most cost-effective solution for most applications as compared to other protective coating options.

EMI/RFI/ESD Protection Options



Applications

Our proprietary thin-film metallization process works in a wide range of applications:

- Medical equipment and devices
- Electronic test and measurement devices
- Navigational devices
- Scanner and data acquisition devices
- Electronic organizers and notebooks
- Computer housings
- Connectors
- Telecommunications devices
- Electrical instruments
- Avionics and aerospace
- Electronic toys and games
- Other plastic electronic enclosures

Available Coatings

Plastic-Metals Technologies offers a variety of coating options:

- Aluminum/Copper
- Nickel/Copper
- Stainless Steel
- Stainless Steel/Copper
- Copper only
- Aluminum only
- Other metals or alloys available upon request



Additional Services

We understand that applying thin-film metallization is just one step in your entire manufacturing process. Plastic-Metals Technologies can help you in other ways too.

- Design consulting (included as part of your service)
- Formulating and applying decorative finishes
- Secondary assembly services – inserting hardware, pad printing, precision-inserting EMI filters and gaskets, sonic welding, heat staking and electrical testing of your product
- Leveraging our long-standing relationships with world-class molders and die casters to your advantage

It's Easy to Get Started

Plastic-Metals Technologies delivers cost-effective and innovative electronic shielding and reflective surface solutions.

Just give us a call. We'll run tests, help you create prototypes, and offer advice on how to solve your particular engineering problem.



Plastic-Metals Technologies, Inc.

7051 SW Sandburg Road
Tigard, OR 97223
503-684-0725
503-684-0735 (fax)

Visit our web site at
www.p-mtinc.com