

Stacking, Laminating and Coating

For the Electrical Insulation of Motor Stators & Armatures

Applied Plastics Experience and Expertise

Founded in 1954, Applied Plastics is one of the original licensed industrial applicators of DuPont Teflon® finishes in the country and we were one of the pioneers in the development of electrostatically applied powder coatings. Over the years, we have perfected the science and art of producing PTFE Natural® Fluoropolymer coated forming mandrels and fine wire in virtually unlimited lengths. We welcome the opportunity to customize a product for your application.

**Call 781-762-1881
for information**

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Proprietary Process

At Applied Plastics, our proprietary process for the multi-laminate stacking, bonding, and coating of gyroscopes, small motors, and stators to electrically insulate and improve their wire-winding is legendary. Developed over many years, it combines art and science. Specializing in producing parts with electrical insulation to 2,000 V and up to 1,000 V/mil thickness, depending upon configuration, our stacking, laminating, bonding, and coating service is ideal for gyroscopes, small motors, and stators. We can hold the lamination alignment to $\pm 0.0005''$ and the parts are deburred and coated. This prevents wire cuts and shorts, providing smoother wire-winding with reduced scrap.

Capable of applying electrostatic powder coatings from 0.002" to 0.005" thick in one pass that meet MIL specifications,

Applied Plastics has developed our proprietary process which combines the art and science of stacking, laminating, and coating to produce electrically insulated motor stators and armatures that provide smoother, more densely populated wire-winding with reduced scrap.

Key Features

- Insulation protection
- Precise lamination alignment
- Rounded edges
- Smoother wire-winding
- Allow more wire to be wound
- Selective coating
- Convenient inventory control
- Thin film coating properties

Our proprietary process is suitable for parts ranging from 3/8" to 8" O.D. and, of course, we can selectively coat. Typical metal laminations, bobbins, end caps, and related parts can include Arnon 7 high carbon steel or Carpenter 49 Alloy and the coatings can be Corvel® 17000 or Scotchcast® epoxies.

Stacking, Laminating, Bonding and Coating Service

Our service is designed to improve the efficiency of motor manufacturers and others by offering one completed part, fully inspected, with one SKU number, and ready for further processing. This saves manpower, time and, of course, money. At Applied Plastics, we are problem solvers and partner with our customers to accommodate their needs in a variety of innovative ways. That is why we have been successfully coating products for over 50 years.



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