

FACTS ABOUT AMT'S PARYLENE-PA COATINGS

PARYLENE-PA coatings are manufactured using AMT's unique Thermo-plasma process starting with some of the same chemical compounds as used for making conventional Parylenes. The process helps in adding **amino functionalities** to the polymer without altering any of the basic characteristics of the Parylene polymer.

The hydrophilic surface of PARYLENE-PA is ideal for cell culture. Sensitive substrates such as ePTFE films can be coated.

PARYLENE- PA can be deposited in thicknesses varying from few hundred Angstroms to several microns. It has the same mechanical properties, chemical resistance, thermal and electrical properties as conventional Parylenes.

AMT's PARYLENE-PA coatings are extremely smooth, stable, chemically resistant and biocompatible materials.

SUITABLE SUBSTRATES

Choose from the full range of substrate lengths and diameters from suppliers of microporous films, tubing and fibers, as well as metal, glass and plastic substrates.

IDEAL FOR MEDICAL APPLICATIONS

Maintains performance in harsh environments. Withstands sterilization by:

- Autoclave
- Ethylene oxide
- Solvent methods

IDEAL FOR CELL CULTURE & TISSUE GRWOTH

- The water wettable surface of AMT's PARYLENE-PA coating is ideal for cell culture and tissue growth applications including microfluidic cell culture

CHEMICALLY & THERMALLY STABLE COATINGS

- Resists attack by most organic and inorganic solvents
- Thermally stable up to 200° C in inert environment; 100° C in air
- Stable under cryogenic conditions

CHEMICALLY BONDED TO SUBSTRATE

- Applied uniformly to entire surface including small crevices
- Does not strip or peel

SURFACE ACTIVATION SITES

PARYLENE-PA coatings can be further processed with unique surface bioactive binding sites for subsequent attachment of biomolecules such as Heparin, Peptides or Monoclonal antibodies.

BIOCOMPATIBILITY

Generally suitable for invasive and noninvasive medical applications where conventional Parylenes are used.

- Passes Rabbit Blood HEMOLYSIS TEST
- Passes in vitro HEMOCOMPATIBILITY TEST

