

## Applications:

- Textiles
- Cosmetics
- Medical apparatuses and devices
- Packing
- Plastics engineering

## Features:

- For all supports
- Clean, simple, quick method
- Redox reaction
- Reacts in aqueous medium without organic solvents
- Room temperature process
- Covalent bonds between the substrate and coating
- Robust interface
- Possibility of implementing biological functions

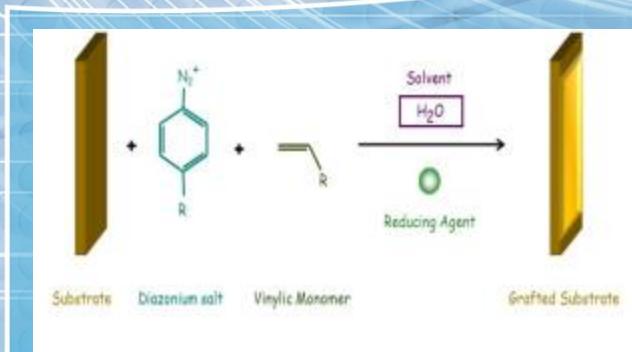
# Support-adaptable Polymeric Film

In a single step process, the material to be treated is simply immersed in an aqueous medium containing the chemical reagents. Graftfast® allows for the grafting of a polymeric film between 1 and 800 nm thick, with an adjustable reaction time (generally less than 15 minutes). The aspect of the coatings thus obtained is perfectly homogeneous and in conformity with the surface.

This coating can modify the material's surface properties, protect the support from environmental stress (wear, waterproofing) and can be biologically active.

## Application

Properties of the Graftfast® coating vary according to the diazonium salts used. It can be antioxidant, antibacterial, and more ...



### • References:

"Grafting polymers on surfaces: a new powerful and versatile diazonium salt-based one-step process in aqueous media", V. Mevellec, S. Roussel, L. Tessier, J. Chancolon, M. Mayne-L'Hermite, G. Deniau, P. Viel, S. Palacin, *Chem. Mater.* **2007**, *19*, 6323.